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FIELD MAINTENANCE PRINT SET

TABLE OF CONTENTS		UNIT VARIATIONS COVERED BY THIS PRINT SET	
K-TC-DMR11-0-1	FIELD MAINTENANCE PRINT SET	DMR11-M	DMR11
K-DD-DMR11-0	DMR11 DRAWING DIRECTORY		FIELD MAINTENANCE PRINT SET
K-PL-DMR11-0-0	DMR11 OPTION		
D-IA-BC08S-0-0	I/O CABLE ASSY		
K-PL-BC08S-0-DBP	I/O CABLE ASSY		
B-DD-M8207-0	MICROCONTROLLER, DMP11		
D-UA-M8207-0-0	MICROCONTROLLER, DMP11		
K-PL-M8207-0-0	MICROCONTROLLER, DMP11		DIGITAL EQUIPMENT CORPORATION
D-CS-M8207-0-1	MICROCONTROLLER, DMP11		PRINT SET ORDER NO.
B-DD-M8203-0	MULTI DROP LINE UNIT		MP00911
D-UA-M8203-0-0	MULTI DROP LINE UNIT		
K-PL-M8203-0-0	MULTI DROP LINE UNIT		
D-CS-M8203-0-1	MULTI DROP LINE UNIT		
B-DD-H3254-0	M8203 TEST CONN J1		
D-UA-H3254-0-0	M8203 TEST CONN J1		
K-PL-H3254-0-0	M8203 TEST CONN J1		
B-DD-H3255-0	M8203 TEST CONN J2		
D-UA-H3255-0-0	M8203 TEST CONN J2		
K-PL-H3255-0-0	M8203 TEST CONN J2		

REVISION HISTORY			CONT. REVISION HISTORY			MADE BY: R. ROBICHAUD		d i s s i l t a i l	
REVI	ECO NUMBER	DATE	REVI	ECO NUMBER	DATE	DATE: 23 AUG 83			
C	DMR11-MK003	23 AUG 83				CHECKED BY: J. FALKOWSKI		TITLE: FIELD MAINTENANCE PRINT SET	
						DATE: 23 AUG 83 <i>J. Falkowski</i>			
						PROJECT ENGR: R. BERGERON			
						DATE: 23 AUG 83 <i>27 OCT 83</i>			
						RESPBLE ENGR: M. LAWRENCE		DMR11	
						DATE: 23 AUG 83 <i>B. Bergeron</i>			
						FIELD SERVICE: S. CRANSTON		SIZE CODE DOCUMENT NUMBER REV.	
						DATE: 23 AUG 83 <i>10-27-83</i>		K TC DMR11-0-1 C	
								SHEET 1 OF 1	

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FOR FIELD MAINTENANCE PRINT SET REFER TO K-TC-DMR11-0-1

UNIT VARIATIONS	
variation	title
DMR11-M	DMR11 BASE OPTION, M8207-RA UPROC, M8203 LINECARD
DMR11-AP	SYSTEM INTEGRATED DMR11/RS232 FULL MODEM
DMR11-BP	SYSTEM INTEGRATED DMR11/V.35 OPTION
DMR11-CP	SYSTEM INTEGRATED DMR11/INTEGRAL MODEM
DMR11-EP	SYSTEM INTEGRATED DMR11/RS422 OPTION
DMR11-FP	SYSTEM INTEGRATED DMR11/RS423 OPTION

REVISION HISTORY			USED ON OPTION/MODEL	RESPONSIBLE ENG.										
ENG	ECO NUMBER	REV		DATE										
ML	DMR11-MK003	B	DMR11	23 AUG 83	M. LAWRENCE <i>R. Berger</i> 27-OCT-83									
				MADE BY	R. ROBICHAUD									
				DATE	23 AUG 83									
				CHECKED BY	<i>J. Falkowski</i> J. FALKOWSKI									
				DATE	23 AUG 83									
					26 SEP 83									
				DESIGN ENGINEER	<i>R. Berger</i> R. BERGERON 27-OCT-83									
				DATE	23 AUG 83									
				PRODUCTION ENG.	W. LADNER									
				DATE	23 AUG 83 27 OCT 83									
					<i>W. Ladner</i>									
						SIZE	CODE	DOCUMENT NUMBER	REV.					
						K	DD	DMR11-0	B					
						SHEET	1 OF 2		EDIT #	0001				

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LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION					
					M	AP	BP	CP	EP	FP
					VARIATION REVISION LEVEL:					
					A2	A2	A2	A2	A2	A2
1	1	D-UA-M8207-0-0	M8207-RA	MICROPROCESSOR BASED SYNCHRONOUS	1	1	1	1	1	1
2	2	D-UA-M8203-0-0	M8203-00	DMP11 LINE UNIT,RS-449,INTEGRAL	1	1	1	1	1	1
3	3	D-IA-BC08S-0-0	BC08S-01	12" SHIELDED I/O CABLE,H856 EA E	1	1	1	1	1	1
4	4	D-UA-H3254-0-0	H3254-00	M8203 TEST CONNECTOR J1	1	1	1	1	1	1
5	5	D-UA-H3255-0-0	H3255-00	M8203 TEST CONNECTOR J2	1	1	1	1	1	1
6	6	K-PL-CKDMR11-0-0	CKDMR11-00	CABKIT REF TO K-AR-CKCKREF-0-0	-	1	1	1	1	1
7	7	K-PL-7020872-0-0	7020872-01	SHIPPING LIST (DMR11)	1	1	1	1	1	1

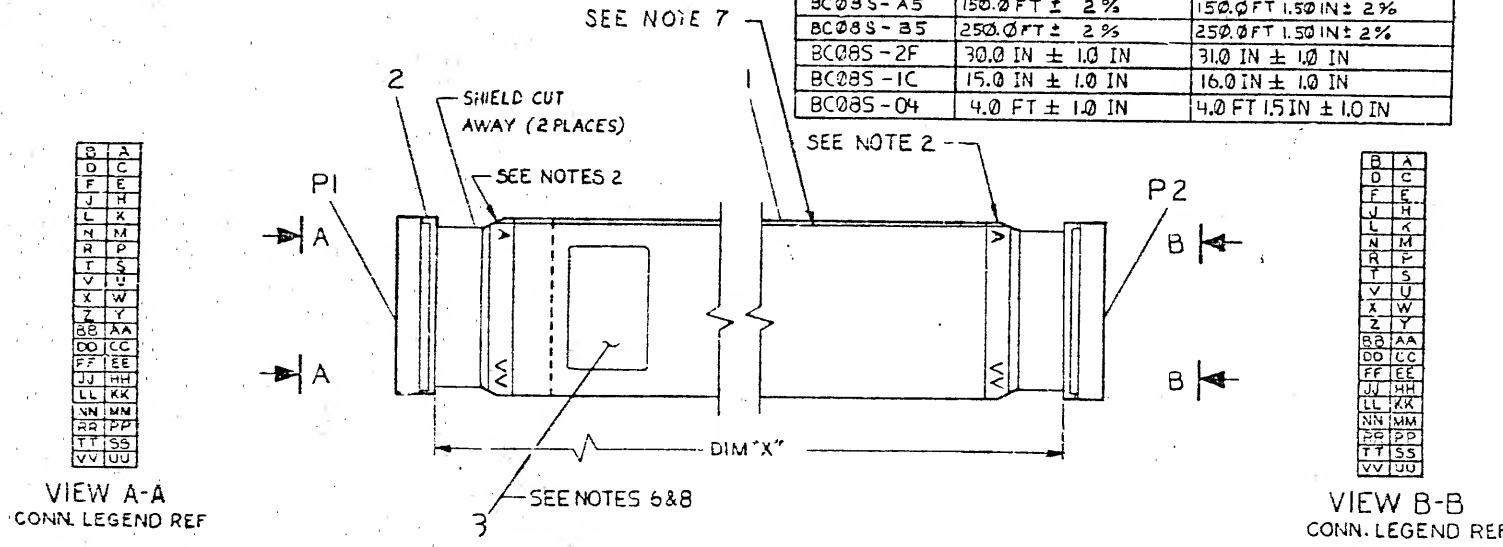
8. NOTE: NOTE 1: CKDMR11-00 IS A REFERENCE VARIANT ONLY. SEE K-AR-CKCKREF-0-0 FOR EXACT VARIANT APPLICATION.

REVISION HISTORY		BASIC PART NO: DMR11		DRN:	D. ZWICKER	DATE: 08-FEB-80	D I G I T A L			
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	G. HOVEY	DATE: 08-FEB-80	DMR11 OPTION			
---	INITIAL	*	SECTION VARIATION INDEX	CHK'D:	G. HOVEY	DATE: 08-FEB-80	DMR11 OPTION			
RH	DMR11-MK001	A	[A]M,AP,BP,CP,EP,FP	DES.ENG:	H. YANG	DATE: 08-FEB-80	DOCUMENT NUMBER			
ML	DMR11-MK003	B	[B]	RESP.ENG.:	R. HARRINGTON	DATE: 08-FEB-80	SIZE	CODE	NUMBER	REV
ML	DMR11-MK004	C	[C]	MFG.ENG.:	G. ARMBRUSTER	DATE: 08-FEB-80	K	PL	DMR11-0-0	C
			[D]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #	
			[E]			#K-DD-DMR11-0	MK0021.PLS		11	
			[F]							

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LEGEND		
NUMBER	DIM."X" VAR	DIM."Y" REF
BCØ8S-ØL	1Ø.ØIN ± Ø.5 IN	11.ØIN ± Ø.5 IN
BCØ8S-Ø1	12.ØIN ± 1.Ø IN	13.ØIN ± 1.Ø IN
BCØ8S-18	14.ØIN ± 1.Ø IN	15.ØIN ± 1.Ø IN
BCØ8S-1K	21.ØIN ± 1.Ø IN	22.ØIN ± 1.Ø IN
BCØ8S-Ø2	24.ØIN ± 1.Ø IN	25.ØIN ± 1.Ø IN
BCØ8S-2K	33.ØIN ± 1.Ø IN	34.ØIN ± 1.Ø IN
BCØ8S-5L	7Ø.ØIN ± 2.Ø IN	71.ØIN ± 2.Ø IN
BCØ8S-Ø7	7.ØFT ± 2.Ø IN	7.ØFT1.ØIN ± 2.Ø IN
BCØ8S-Ø8	8.ØFT ± 2.Ø IN	8.ØFT1.ØIN ± 2.Ø IN
BCØ8S-Ø9	9.ØFT ± 2.Ø IN	9.ØFT1.ØIN ± 2.Ø IN
BCØ8S-1Ø	1Ø.ØFT ± 3.Ø IN	1Ø.ØFT1.ØIN ± 3.Ø IN
BCØ3S-11	11.ØFT ± 3.Ø IN	11.ØFT1.ØIN ± 3.Ø IN
BCØ8S-12	12.ØFT ± 3.Ø IN	12.ØFT1.ØIN ± 3.Ø IN
BCØ8S-13	13.ØFT ± 3.Ø IN	13.ØFT1.ØIN ± 3.Ø IN
BCØ8S-14	14.ØFT ± 3.Ø IN	14.ØFT1.ØIN ± 3.Ø IN
BCØ8S-15	15.ØFT ± 3.Ø IN	15.ØFT1.ØIN ± 3.Ø IN
BCØ8S-16	16.ØFT ± 3.Ø IN	16.ØFT1.ØIN ± 3.Ø IN
BCØ8S-17	17.ØFT ± 3.Ø IN	17.ØFT1.ØIN ± 3.Ø IN
BCØ8S-18	18.ØFT ± 3.Ø IN	18.ØFT1.ØIN ± 3.Ø IN
BCØ8S-19	19.ØFT ± 3.Ø IN	19.ØFT1.ØIN ± 3.Ø IN
BCØ8S-2Ø	2Ø.ØFT ± 3.Ø IN	2Ø.ØFT1.ØIN ± 3.Ø IN
BCØ8S-25	25.ØFT ± 3.Ø IN	25.ØFT1.ØIN ± 3.Ø IN
BCØ3S-3Ø	3Ø.ØFT ± 7.2 IN	3Ø.ØFT1.ØIN ± 7.2 IN
BCØ8S-35	35.ØFT ± 8.4 IN	35.ØFT1.ØIN ± 8.4 IN
BCØ8S-5Ø	5Ø.ØFT ± 12.Ø IN	5Ø.ØFT1.ØIN ± 12.Ø IN
BCØ8S-Ø3	3.ØFT ± 1.Ø IN	3.ØFT1.5ØIN ± 1.Ø IN
BCØ8S-Ø5	5.ØFT ± 2.Ø IN	5.ØFT1.5ØIN ± 2.Ø IN
BCØ3S-A5	15Ø.ØFT ± 2%	15Ø.ØFT1.5ØIN ± 2%
BCØ8S-B5	25Ø.ØFT ± 2%	25Ø.ØFT1.5ØIN ± 2%
BCØ8S-2F	3Ø.ØIN ± 1.Ø IN	31.ØIN ± 1.Ø IN
BCØ8S-1C	15.ØIN ± 1.Ø IN	16.ØIN ± 1.Ø IN
BCØ8S-Ø4	4.ØFT ± 1.Ø IN	4.ØFT1.5ØIN ± 1.Ø IN


- NOTES:
1. CONNECTORS P1 AND P2, ARE TO BE WIRED POINT TO POINT.
 2. CONNECTOR LEGEND IDENTIFICATION TO BE PLACED ON SHIELD SIDE AT EACH END OF CABLE ASSEMBLY.
 3. MUST BE ASSEMBLED TO PROCESS SPECIFICATION 7606485-0-0.
 4. ~~INSPECTION AND TEST STAMPS TO BE PLACED AT EACH END OF THE CABLE ASSEMBLY.~~
 5. ~~THE NUMBER DC683 MUST BE ON THE CABLE IN CONJUNCTION WITH CONNECTOR LEGEND IDENTIFICATION.~~
 6. ADD ITEM 3 APPROX 4 IN FROM CONNECTOR P1. EITHER I.D. LABEL 3416929-00 OR 316073-00 MAY BE USED. PLACE ON SMOOTH SIDE OF CABLE.
 7. IF MARKER STRIPE APPEARS ON CABLE, ITEM 1, IT IS TO BE POSITIONED BETWEEN A-A.
 8. THIS LABEL MAY BE REQUIRED PER UL REQUIREMENT FOR INTERCONNECTING SYSTEMS.



CHN	CHANGE IN	REV
1	BC085-00010 M	
2	REVISED AND RENEWED	
3	W FISHER 14 JUN 76	
4	S HOLMES	
5	S HOLMES- 23 JUN 76	
6	DC BC085-00011 N	
7	D CHASSON 19 JUL 76	
8	E V NEUMAYER	
9	E NEUMAYER 7-30-76	
10	BC085-00012 P	
11	A 30 JUN 76	
12	ARTHUR FILZ	
13	10 JUL 76	
14	BC085-00013 R	
15	W CHASSON 20 JUL 76	
16	A FILZ	
17	10 JUL 76	
18	HC085-00014 S	
19	30 JUL 76	
20	A FILZ	
21	30 JUL 76	
22	HC085-00015 U	
23	30 JUL 76	
24	BC085-00016 V	
25	30 JUL 76	
26	HC085-00017 V	
27	30 JUL 76	
28	BC085-00018 W	
29	30 JUL 76	
30	HC085-00019 Y	
31	30 JUL 76	
32	BC085-00020 Z	
33	30 JUL 76	
34	HC085-00021 A	
35	30 JUL 76	
36	HC085-00022 B	
37	30 JUL 76	
38	HC085-00023 C	
39	30 JUL 76	
40	HC085-00024 D	
41	30 JUL 76	
42	HC085-00025 E	
43	30 JUL 76	
44	HC085-00026 F	
45	30 JUL 76	
46	HC085-00027 G	
47	30 JUL 76	
48	HC085-00028 H	
49	30 JUL 76	
50	HC085-00029 I	
51	30 JUL 76	
52	HC085-00030 J	
53	30 JUL 76	
54	HC085-00031 K	
55	30 JUL 76	
56	HC085-00032 L	
57	30 JUL 76	
58	HC085-00033 M	
59	30 JUL 76	
60	HC085-00034 N	
61	30 JUL 76	
62	HC085-00035 O	
63	30 JUL 76	
64	HC085-00036 P	
65	30 JUL 76	
66	HC085-00037 Q	
67	30 JUL 76	
68	HC085-00038 R	
69	30 JUL 76	
70	HC085-00039 S	
71	30 JUL 76	
72	HC085-00040 T	
73	30 JUL 76	
74	HC085-00041 U	
75	30 JUL 76	
76	HC085-00042 V	
77	30 JUL 76	
78	HC085-00043 W	
79	30 JUL 76	
80	HC085-00044 X	
81	30 JUL 76	
82	HC085-00045 Y	
83	30 JUL 76	
84	HC085-00046 Z	
85	30 JUL 76	
86	HC085-00047 A	
87	30 JUL 76	
88	HC085-00048 B	
89	30 JUL 76	
90	HC085-00049 C	
91	30 JUL 76	
92	HC085-00050 D	
93	30 JUL 76	
94	HC085-00051 E	
95	30 JUL 76	
96	HC085-00052 F	
97	30 JUL 76	
98	HC085-00053 G	
99	30 JUL 76	
100	HC085-00054 H	
101	30 JUL 76	
102	HC085-00055 I	
103	30 JUL 76	
104	HC085-00056 J	
105	30 JUL 76	
106	HC085-00057 K	
107	30 JUL 76	
108	HC085-00058 L	
109	30 JUL 76	
110	HC085-00059 M	
111	30 JUL 76	
112	HC085-00060 N	
113	30 JUL 76	
114	HC085-00061 O	
115	30 JUL 76	
116	HC085-00062 P	
117	30 JUL 76	
118	HC085-00063 Q	
119	30 JUL 76	
120	HC085-00064 R	
121	30 JUL 76	
122	HC085-00065 S	
123	30 JUL 76	
124	HC085-00066 T	
125	30 JUL 76	
126	HC085-00067 U	
127	30 JUL 76	
128	HC085-00068 V	
129	30 JUL 76	
130	HC085-00069 W	
131	30 JUL 76	
132	HC085-00070 X	
133	30 JUL 76	

1	LABEL, CABLE I.D.	3616989-00	4
1	LABEL, PRODUCT ID	1004255	3
2	CONNECTOR, 10 SOCKET	1211206-00	2
AN	CABLE, FLAT40 COND	1700004-00	1

DESCRIPTION		DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 30° 30'	CLASS OF ADHESIVE	NOMINAL DIMENSION RANGE INCHES	
		OYER	OYER
SURFACE QUALITY IN	KICKBACK ONEI	0.2 1.2 4.0 12.0	0.2 1.2 4.0 12.0
		0.2 1.2 4.0 12.0	0.2 1.2 4.0 12.0
	LEADUM	0.004 0.008 0.012 0.016	0.024 = 0.4
	PREFERRED	0.012 0.016 0.024 0.04	0.063 0.125

THIRD ANGLE PROJECTION	DRN J. FERGUSON 5-27-71	FIRST USED ON	LAB8-E		digit
	CHK'D K. CRAE BE 5-13-71	TITLE	1/0 CABLE ASSY		
REMOVE BURRS AND BREAK SHARP CORNERS	ENG'D K. CRAE BE 5-13-71		(DIAG. JUMPER)		
DO NOT SCALE DWG	PROJ. ENG. B. JENK 5-21-71				
	PROD. P. FALIG 5-21-71				
	NEXT ISSUE ASSY.				
MATERIAL SEE PARTS LIST	A-PL - ORR - FA - 2	SIZE	CODE	NUMBER	REV.
FINISH	SCALE - NONE	D	1A	BC08S-0-0	27
	SHEET 1 OF 1	DIST.			

AUTOMATED BY PRTLST.5R(55)

PARTS LIST

SHEET A1 OF 41

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VARIATION										
						0L	01	1B	1K	02	2K	5L	07	08	09	10
1	1	NOTES 3 & 4	1700004-00		CABLE,RIBBON BOND 40COND 30AWG	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1
2	2		1211206-00		CONN,IDC 40SKT(2X20).100CC GOL	11	13	15	22	25	34	71	7	8	9	10
3	3	NOTES 1 & 2	3616989-00		LABEL,CABLE LARGE	2	2	2	2	2	2	2	2	2	2	2
						1	1	1	1	1	1	1	1	1	1	2

- 4 NOTE: 1. EITHER I.D. CABLE 3616989-00 OR 3616073-00 MAY BE USED.
5 NOTE: 2. PLACE ON SMOOTH SIDE OF CABLE.
6 NOTE: 3. QUANTITY OF ITEM 1, VARIATIONS -0L, -01, -1B, -1K, -02, -2K, -5L, -2F, AND -1C ARE
7 NOTE: SHOWN IN INCHES.
8 NOTE: 4. QUANTITY OF ITEM 1, ALL OTHER VARIATIONS ARE SHOWN IN FEET. NOTE THAT THE
9 NOTE: QTY OF THESE VARIATIONS DO NOT INCLUDE ALLOWANCE FOR CONNECTORS.

REVISION HISTORY		BASIC PART NO: BC08S		DRN: F. LASPISA		DATE: 15-NOV-83		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF C	CHK'D:	L. GILBERT	DATE:	15-NOV-83	TITLE PARTS LIST	
	INITIAL	W	SECTION VARIATION INDEX					I/O CABLE ASSY	
ML	BC08S-PN019	Y	[A]0L,01,1B,1K,02,2K,					(DIAG. JUMPER)	
AF	BC08S-MR020	Z	5L,07,08,09,10,11					DOCUMENT NUMBER	
			[B]12,13,14,15,16,17,	DES.ENG:	E. KING	DATE:	15-NOV-83	SIZE CODE NUMBER	
			18,19,20,25,30,35					K PL BC08S-0-DBP 7	
			[C]50,03,05,AS,BS,2F,	RESP.ENG.:	E. KING	DATE:	15-NOV-83	RELEASE DATE: 15-JUL-85	
			1C,04						
			[D]	MFG.ENG.:	J. DEBLASIO	DATE:	15-NOV-83	FILE NAME: BC08SZ.PLS	
			[E]					EIT 7	
			[F]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:			
				D-IA-BC08S-0-0		A-FL-DR8-EA-0			

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PARTS LIST

LINE ITEM TOP DOCUMENT

MIN
PART NUMBER REV DESCRIPTION

VARIATION REVISION LEVEL:

QTY PER VARIATION

SHEET B1 OF B1

1 1 NOTES 3 & 4

2 2

3 3 NOTES 1 & 2

1700004-00

1211206-00

3616989-00

CABLE,RIBBON BOND 40COND 30AWG
CONN,IDC 40SKT(2X20).100CC GOL
LABEL,CABLE LARGE

12	13	14	15	16	17	18	19	20	25	30	35
Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1
12	13	14	15	16	17	18	19	20	25	30	35
2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	2	2	2	2	2

- 4 NOTE: 1. EITHER I.D. CABLE 3616989-00 OR 3616073-00 MAY BE USED.
5 NOTE: 2. PLACE ON SMOOTH SIDE OF CABLE.
6 NOTE: 3. QUANTITY OF ITEM 1, VARIATIONS -0L, -01, -1B, -1K, -02, -2K, -5L, -2F, AND -1C ARE
7 NOTE: SHOWN IN INCHES.
8 NOTE: 4. QUANTITY OF ITEM 1, ALL OTHER VARIATIONS ARE SHOWN IN FEET. NOTE THAT THE
9 NOTE: QTY OF THESE VARIATIONS DO NOT INCLUDE ALLOWANCE FOR CONNECTORS.

REVISION HISTORY		BASIC PART NO: BC0BS		DRN: F. LASPISA		DATE: 15-NOV-83		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION B OF C	CHK'D: L. GILBERT	DATE: 15-NOV-83	TITLE PARTS LIST			
INITIAL	BC0BS-0019	W	SECTION VARIATION INDEX	DES.ENG: E. KING	DATE: 15-NOV-83	I/O CABLE ASSY			
ML	BC0BS-MR020	Y	TA10L,01,1B,1K,02,2K,	RESP.ENG.: E. KING	DATE: 15-NOV-83	(DIAG. JUMPER)			
AF		Z	5L,07,08,09,10,11	DATE: 15-NOV-83	DOCUMENT NUMBER				
			EB112,13,14,15,16,17,	DATE: 15-NOV-83	SIZE CODE NUMBER REV				
			18,19,20,25,30,35	DATE: 15-NOV-83	K PL BC0BS-0-DEP Z				
			CC150,03,05,05,05,05,05,	DATE: 15-NOV-83	RELEASE DATE: 15-JUL-85				
			1C,04	DATE: 15-NOV-83	TOP DOCUMENT NUMBER: FILE NAME: EDIT #				
			[D]	DATE: 15-NOV-83	A-PL-DR8-EA-0 BC0BSZ.FLS 7				
			[E]						
			[F]						
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PARTS LIST

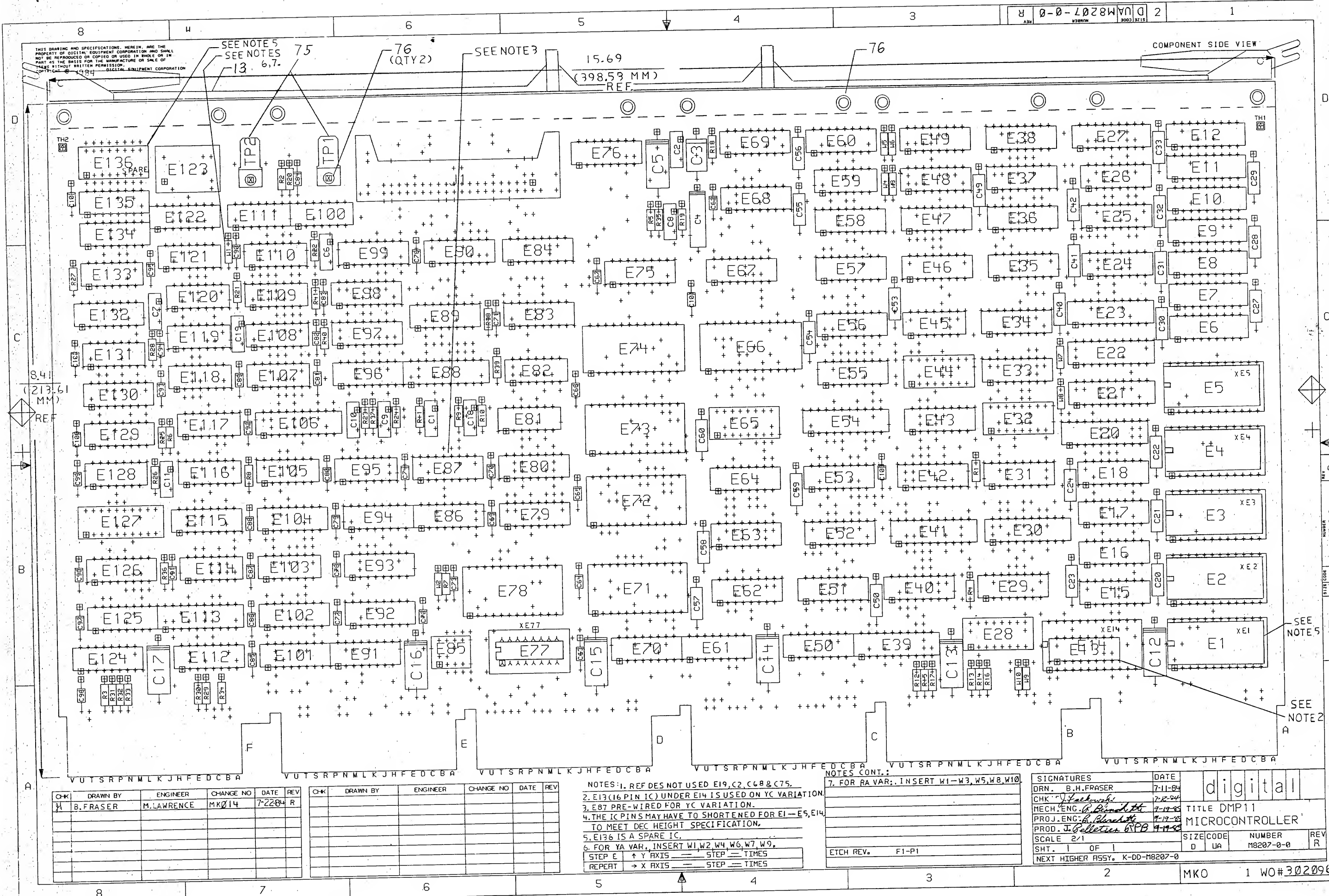
SHEET C1 OF C1

LINE ITEM	TOP DOCUMENT	PART NUMBER	MIN REV DESCRIPTION	QTY PER VARIATION	50	03	05	A5	B5	2F	1C	04
			VARIATION REVISION LEVEL:	Z1	Z1	Z1	Z1	Z1	Z1	Z1	Z1	A1
1	1	NOTES 3 & 4	1700004-00	CABLE,RIBBON BOND 40COND 30AWG	50	3	5	150	250	31	16	4
2	2		1211206-00	CONN,IBC 40SKT(2X20).100CC GOL	2	2	2	2	2	2	2	2
3	3	NOTES 1 & 2	3616989-00	LABEL,CABLE LARGE	2	1	1	2	2	1	1	1

- 4 NOTE: 1. EITHER I.D. CABLE 3616989-00 OR 3616073-00 MAY BE USED.
5 NOTE: 2. PLACE ON SMOOTH SIDE OF CABLE.
6 NOTE: 3. QUANTITY OF ITEM 1, VARIATIONS -01, -01, -1B, -1K, -02, -2K, -5L, -2F, AND -1C ARE
7 NOTE: SHOWN IN INCHES.
8 NOTE: 4. QUANTITY OF ITEM 1, ALL OTHER VARIATIONS ARE SHOWN IN FEET. NOTE THAT THE
9 NOTE: QTY OF THESE VARIATIONS DO NOT INCLUDE ALLOWANCE FOR CONNECTORS.

REVISION HISTORY			BASIC PART NO: BC08S	DRN: F. IASPIA	DATE: 15-NOV-83	D I G I T A L						
ENG	ECO NUMBER	REV	SECTION C OF C	CHK'D: L. GILBERT	DATE: 15-NOV-83	TITLE PARTS LIST						
INITIAL			SECTION VARIATION INDEX			I/O CABLE ASSY						
PL BC08S-PN019			EA101,01,1R,1K,02,2K,			(DIAG. JUMPER)						
AF BC08S-MR020			5L,07,08,09,10,11									
			CB112,13,14,15,16,17,	DES.ENG: E. KING	DATE: 15-NOV-83	DOCUMENT NUMBER						
			18,19,20,25,30,35			SIZE CODE NUMBER REV						
			CC150,03,05,A5,B5,2F,	RESP.ENG.: E. KING	DATE: 15-NOV-83	K PL BC08S-0-DBP Z						
			1C,04									
			[D]									
			[E]	MFG.ENG.: J. DEBLASIO	DATE: 15-NOV-83	RELEASE DATE: 15-JUL-85						
			[F]									
				ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME: EDIT #						
				ID-IA-BC08S-0-0	IA-PL-DR8-EA-0	BC08SZ.PLS 7						

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CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV
1	B. FRASER	M. LAWRENCE	MK014	7-22-84	R

CHK	DRAWN BY	ENGINEER	CHANGE NO	DATE	REV

NOTES: 1. REF DES NOT USED E19, C2, C68 & C75.
2. E13 (16 PIN IC) UNDER E14 IS USED ON YC VARIATION.
3. E87 PRE-WIRED FOR YC VARIATION.
4. THE IC PINS MAY HAVE TO SHORTENED FOR E1-E5, E14 TO MEET DEC HEIGHT SPECIFICATION.
5. E136 IS A SPARE IC.
6. FOR YA VAR, INSERT W1, W2, W4, W6, W7, W9.
STEP E → Y AXIS → STEP → TIMES
REPEAT → X AXIS → STEP → TIMES

NOTES CONT:
7. FOR RA VAR: INSERT W1-W3, W5, W8, W10.
ETCH REV. F1-P1

SIGNATURES		DATE	digital		
DRN. B.H.FRASER		7-11-84	TITLE DMP11 MICROCONTROLLER		
CHK. J. Lawrence		7-12-84			
MECH. ENG. B. Blundell		7-19-84			
PROJ. ENG. B. Blundell		7-19-84			
PROD. J. Blundell RPB		7-19-84			
SCALE 2/1		SIZE	CODE	NUMBER	REV
SHT. 1 OF 1		D	UA	M8207-0-0	R
NEXT HIGHER ASSY. K-DD-M8207-0					
2		MKO		1 WO#30209	

LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV			REFERENCE DESIGNATORS	
						00 T5	RA T5	YA T5		
1	1	D-MD-5012845-0-0	50-12845-00	M8207		1	1	1		
2	2		10-00042-00	1000	PFD 100V +/- 5% 200PP	3	3	3	C1,C7,C11	
3	3		10-10031-00	0.15	MFD 50V +/-10% M.POL	1	1	1	C3	
4	4		10-00076-00	39	MFD 10V +/-10% SOL	1	1	1	C4	
5	5	#NOTE 1	10-12084-01	8.0	MFD 25V +75/-10% 85	7	7	7	C5,C12-C17	
6	6		10-00017-00	100	PFD 300V +/- 5% 200PP	3	3	3	C6,C8,C19	
7	7		10-00026-00	680	PFD 100V +/- 5% 200PP	2	2	2	C9,C10	
8	8		10-00011-00	47	PFD 100V +/- 5% 200PP	1	1	1	C18	
9	9		10-02427-00	*** THIS ITEM IS NOT USED ***			-	-	-	
10	10		10-13466-11	0.22	MFD 50V +80/-20% Z5U C	25	25	25	C20-C24,C27-C33,C40-C42,C49, CONT C50,C53-C60	
11	11		10-12784-00	0.047	MFD 50V +80/-20% Z5U C	41	41	41	C62-C67,C69-C74,C76-C104	
12	12		12-09941-02	PCB,HEADER 40PIN(2X20).100CC 90D			1	1	1	J1
13	13		12-12385-04	SKT,IC 24PIN DIP GOLD SOLD			6	6	6	XE1-XE5,XE14
14	14		12-16988-02	HANDLE,MODULE,HEX TWO EJECTORS			1	1	1	
15	15		12-09838-00	SKT,IC 16PIN DIP GOLD			1	1	1	XE77
16	16		13-00229-00	100.0	.25 W 5.0 %	CF	6	6	6	R1,R22,R23,R35,R37,R41
17	17		13-00365-00	1.0	K .25 W 5.0 %	CF	17	17	17	R2-R8,R12-R17,R24,R36,R39,R40
18	18		13-00271-00	220.0	.25 W 5.0 %	CF	1	1	1	R9
19	19		13-01890-00	560.0	.25 W 5.0 %	CF	1	1	1	R10
20	20		13-01322-00	180.0	.25 W 5.0 %	CF	5	5	5	R11,R29,R32-R34
21	21		13-09419-00	19.60	K .25 W 1.0 %	RN55D-F10	1	1	1	R18
22	22		13-02514-00	39.0	K .25 W 5.0 %	CF	1	1	1	R19
23	23		13-01317-00	10.0	.25 W 5.0 %	CF	3	3	3	R20,R21,R38
24	24			*** THIS ITEM IS NOT USED ***			-	-	-	
25	25		13-03179-00	8.20	K .25 W 5.0 %	CF	2	2	2	R26,R27
26	26		13-02177-00	47.0	K .25 W 5.0 %	CF	2	2	2	R25,R28
27	27		13-00309-00	390.0	.25 W 5.0 %	CF	2	2	2	R30,R31
28	28		23-56F4 -00	F4-01			-	-	1	E1
29	29		21-14523-00		4K MOS RAM 55NS 18PIN		8	8	8	E6-E12,E27

REVISION HISTORY			KPL MODULE FORMAT			SECTION A OF A		DRN: J.PLANTE		DIGITAL					
ENG	ECO NUMBER	REV	SECTION/VARIATION INDEX			DATE: 14-MAR-79									
---	MK002	D	[A]	00,RA,YA	[M]	CHK'D: J.PELLETIER				TITLE PARTS LIST					
PA	M8207-MK003	E	[B]		[N]	DATE: 14-MAR-79				DMP11 MICROCONTROLLER					
PA	M8207-MK005	H	[C]		[P]	DES.ENG: P.ALOISI									
PA	M8207-MK006	J	[D]		[Q]	DATE: 14-MAR-79				DOCUMENT NUMBER					
RH	M8207-MK007	K	[E]		[R]					SIZE	CODE	NUMBER	REV		
PO	M8207-MK009	L	[F]		[S]	RESP.ENG.: M.LAWRENCE				K	PL	M8207-0-DBP	T		
FB	M8207-MK010	M	[H]		[T]	DATE: 09-JAN-84				RELEASE DATE: 05-DEC-88					
ML	M8207-MK011	N	[J]		[V]					RELEASE STATUS: RELEASED					
ML	M8207-MK012	P	[K]		[W]	MFG.ENG: W.BROOKE									
ML	M8207-MK013	R	[L]		[Y]	DATE: 09-JAN-84									
ML	M8207-MK014	S													
RB	M8207-MK015	T	BASIC PART NUMBER:			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			EDIT #			
			M8207			D-UA-M8207-0-0			K-DD-M8207-0-0			6			
			FILE NAME: M8207T.PLS												

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LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY PER VAR/REV			REFERENCE DESIGNATORS
						00	RA	YA	
						T5	T5	T5	
30	30		19-11579-00		/REPLACED BY 19-14987-00	10	10	10	E50,E51,E61,E62,E91-E93,E101,
31	31		19-13294-00		93S16 COUNTER,SYNCH UP BIN	7	7	7	CONT E102,E115
32	32		19-14214-00		LS374 FF-D OCTAL EDGE TRIG	4	4	4	E15-E18,E24-E26
33	33		19-12847-00		LS157 MUX 1 OF 2(QUAD)	9	9	9	E20-E23
34	34		19-13671-00		74S374 FF-D,OCTAL,TR1 STATE	3	3	3	CONT E29,E31,E40,E42,E52,E63,E70,
35	35		23-202A1-00	A1-07		1	1	1	E79,E94
36	36		19-11675-00		74S138 DECODER/DEMUX 3-8 LI	4	4	4	E30,E41,E54
37	37		19-12728-00		74S251 MUX 1 OF 8 TRI-STA	8	8	8	E32
38	38		19-12697-00		LS174 FF-D HEX W/CLEAR	3	3	3	E33,E56,E80,E96
39	39		19-12696-00		LS194A SHIFT REG.,4BIT BI-D	2	2	2	E34-E36,E46-E48,E57,E58
40	40		19-13462-00		74S240 OCTAL BUFFER,INVERTI	4	4	4	E37,E43,E97
41	41		23-120A1-00	A1-07		1	1	1	E38,E49
42	42		19-10539-00		74S20 NAND GATE-DUAL 4INPU	1	1	1	E39,E88,E106,E113
43	43		19-12647-00		LS257 MUX 1 OF 2 (QUAD)	2	2	2	E44
44	44		19-10956-00		74S151 MUX 1 OF 8	1	1	1	E45
45	45		19-10532-00		74S00 NAND GATE-QUAD 2IN	2	2	2	E53,E64
46	46		19-10549-00		74S158 MUX 1 OF 2 (QUAD)	1	1	1	E55
47	47		23-121A1-00	A1-07		1	1	1	E59,E108
48	48		19-10531-00	DEC	74S181 ALU-4BIT	2	2	2	E60
49	49		19-10957-00		74S175 FF-D QUAD COMMON CLO	4	4	4	E65
50	50		19-10548-00		74S157 MUX 1 OF 2 (QUAD)	3	3	3	E66,E74
51	51		19-12837-00		LS123 ONE SHOT-DUAL,RETRIG	3	3	3	E67,E75,E89,E99
52	52		19-12741-00		82S112 MEMORY READ/WRITE, 3	4	4	4	E68,E83,E86
53	53		19-12853-00		LS175 FF-D QUAD	1	1	1	E69,E129,E132
54	54		19-05580-00	DEC	7450 A-0-I XPNDBLE GATE-D	2	2	2	E71-E73,E78
55	55		13-18784-01	R. NET	JUMPER PRIOR. 5 - 6 SPE	1	1	1	E76
56	56		19-10544-00		74S74 FF-D DUAL,EDGE TRIGG	4	4	4	E81,E117
57	57		19-12661-00		74S189 MEMORY READ/WRITE	2	2	2	E77
58	58		19-10537-00		74S11 AND GATE-TRIPLE 3INP	2	2	2	E82,E105,E109,E121
59	59		19-12845-00		LS153 MUX 1 OF 4 (DUAL)	1	1	1	E84,E90
60	60		19-09705-00	DEC	8881 NAND GATE-QUAD 2IN 0	2	2	2	E95,E119
61	61		19-12842-00		LS138 DECODER-THREE INPUT,	1	1	1	E98
62	62		19-12805-00		LS08 AND GATE-QUAD 2IN,PO	1	1	1	E100,E114
63	63		19-10536-00		74S10 NAND GATE-TRIPLE 3IN	1	1	1	E104
64	64		19-11712-00		74S51 AND-OR GATE-INVERT D	2	2	2	E103
65	65		19-10542-00		74S64 A-0-I GATE 4-2-3-2	1	1	1	E107
66	66		19-14438-00	DC	013 UNIBUS INTERRUPT-BIP	2	2	2	E110,E118
67	67		19-12824-00		LS74 FF-D DUAL,EDGE TRIGG	2	2	2	E111
68	68		19-10545-00		74S112 FF-JK DUAL,EDGE TRIG	3	3	3	E112,E124
69	69		19-12395-00	DM	8136 COMPARATOR-6BIT UNIF	2	2	2	E116,E120
70	70		18-11660-05	OSCILLATOR,	XTAL 33.330 MHZ	1	1	1	E122,E134,E135
71	71		19-12834-00		LS112 FF-JK,DUAL,EDGE TRIG	1	1	1	E125,E126
72	72		19-09004-00	DEC	7402 NOR GATE-QUAD 2IN	1	1	1	E123
73	73		19-12389-00		74S08 AND GATE-QUAD 2IN,PO	1	1	1	E130
74	74		12-11164-04	SW,DIP	08POS/1PST 5VDC100MA F	1	1	1	E131
75	75		12-11164-06	SW,DIP	10POS/1PST 5VDC100MA F	1	1	1	E133
76	76		13-00005-03	R. NET	10.0K-13 5.0	1	1	1	E28
77	77		90-00024-01		*** THIS ITEM IS NOT USED ***	-	-	-	E127
									E128

D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							DMP11 MICROCONTROLLER			K	PL	M8207-0-DBP	T

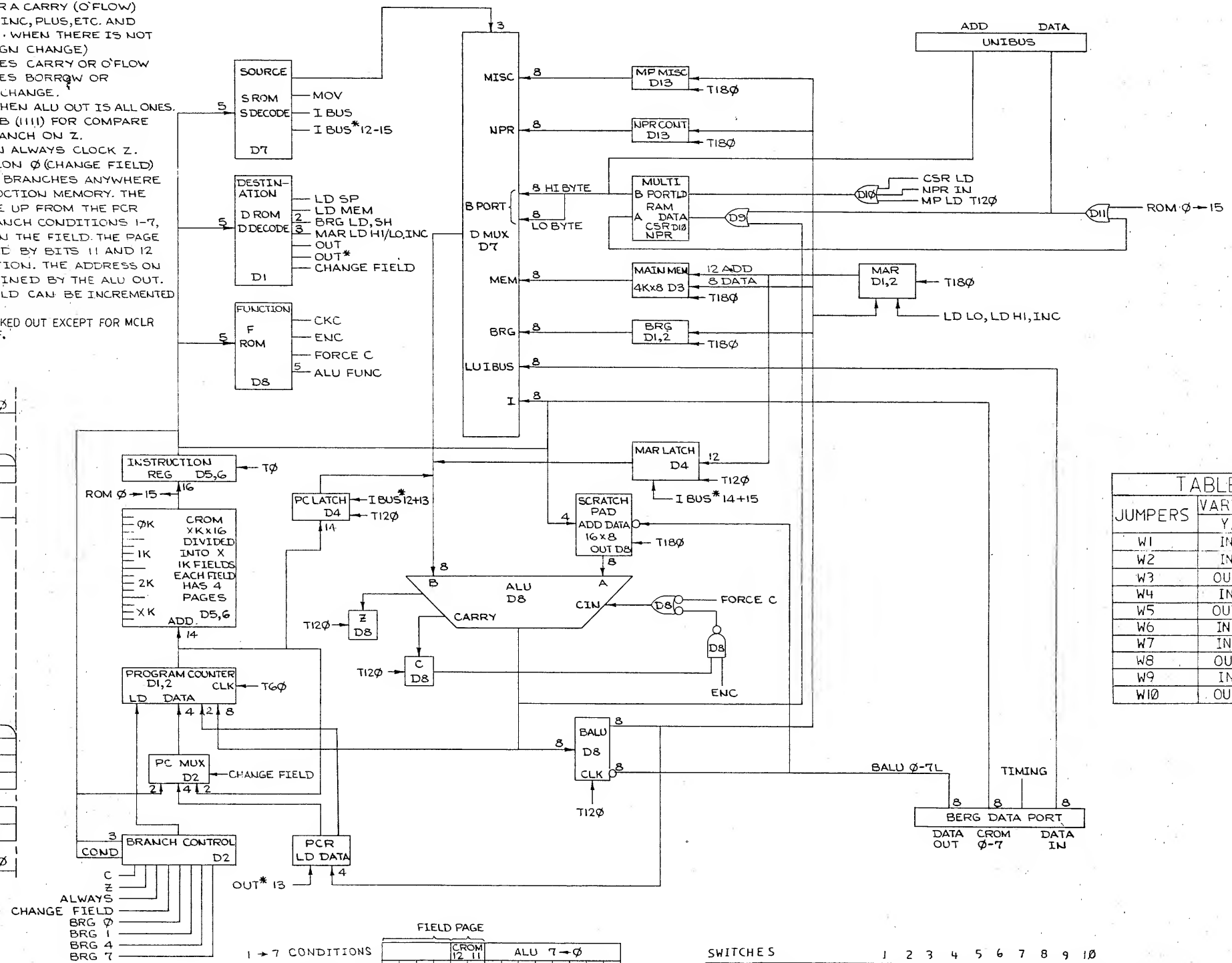
LINE	ITEM	TOP DOCUMENT	PART NUMBER	MIN REV	DESCRIPTION	QTY	PER	VAR/REV	REFERENCE DESIGNATORS
						00 T5	RA T5	YA T5	
78	78	SEE NOTE # 78	12-21142-01		TERM,TAB .250TAB	2	2	2	TP1,TP2
79	79		90-09000-00		EYELET,ROLLED 0.1210DX0.156	14	14	14	
80	80		90-09185-00		JUMPER, WIRE, INSULATED, BLACK B	10	-	-	W1-W10
			CONT			-	6	-	W1-W3,W5,W8,W10
						-	-	6	W1,W2,W4,W6,W7,W9
31	81		23-57F4 -00		F4-01	-	-	1	E2
82	82		23-58F4 -00		F4-01	-	-	1	E3
83	83		23-59F4 -00		F4-01	-	-	1	E4
84	84		23-62F4 -00		F4-01	-	-	1	E5
85	85		23-63F4 -00		F4-01	-	-	1	E14
86	86				*** THIS ITEM IS NOT USED ***	-	-	-	
87	87	#NOTE 2	12-11164-00		SW,DIP 4POS/1PST 5VDC100MA F	1	1	1	E85
88	88				*** THIS ITEM IS NOT USED ***	-	-	-	
89	89		23-127F3-00		F3-03	-	1	-	E1
90	90		23-100F3-00		F3-03	-	1	-	E2
91	91		23-101F3-00		F3-03	-	1	-	E3
92	92		23-128F3-00		F3-03	-	1	-	E4
93	93		23-103F3-00		F3-03	-	1	-	E5
94	94		23-104F3-00		F3-03	-	1	-	E14
95	95				*** THIS ITEM IS NOT USED ***	-	-	-	
96	96		37-00689-10		PKG UNIVERSAL MODULE 10 PACK	1	1	1	
97	97				*** THIS ITEM IS NOT USED ***	-	-	-	

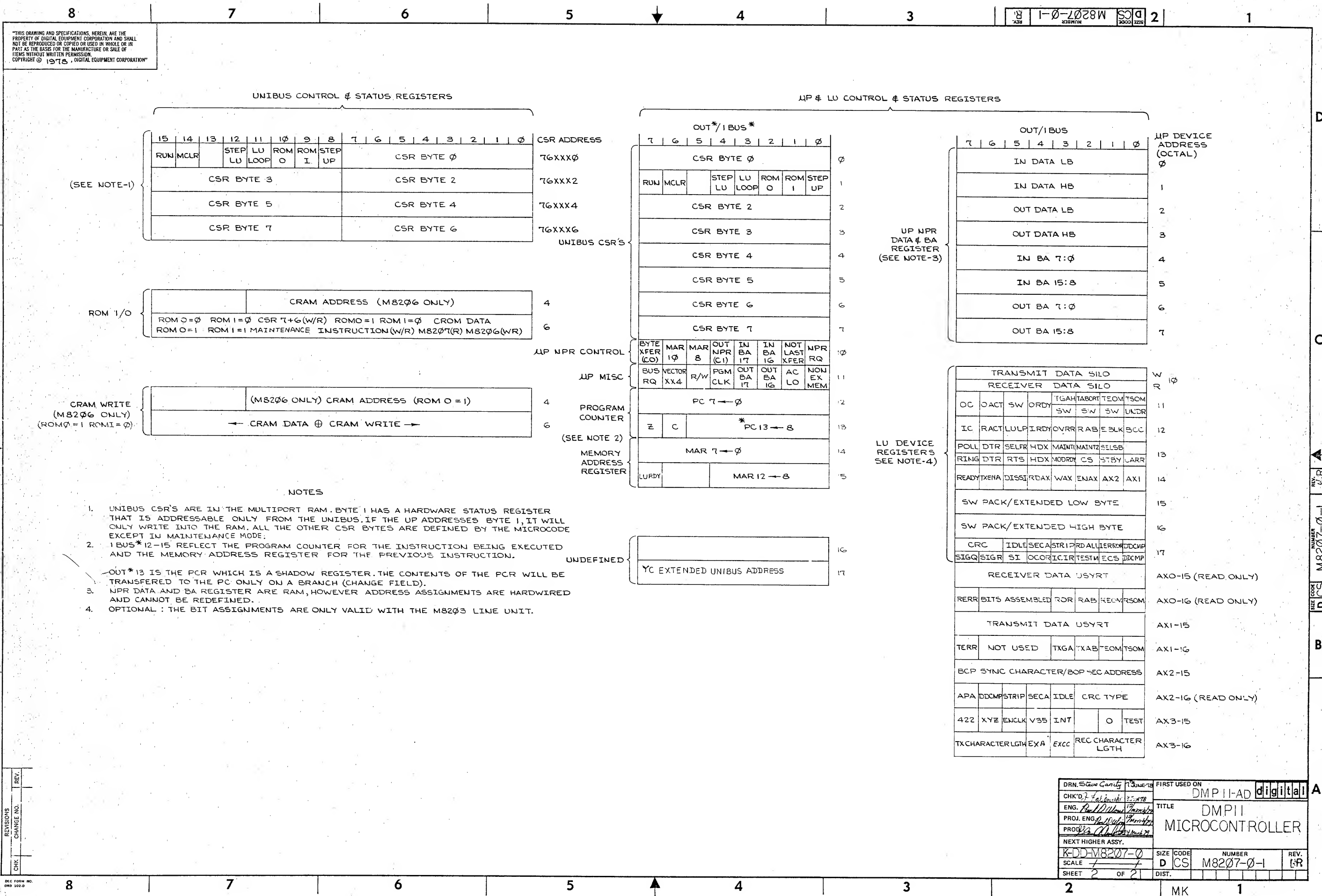
78 NOTE: 90-07112-00 MAY BE USED INSTEAD OF 12-21142-01 AT MANUFACTURERS DISCRETION.

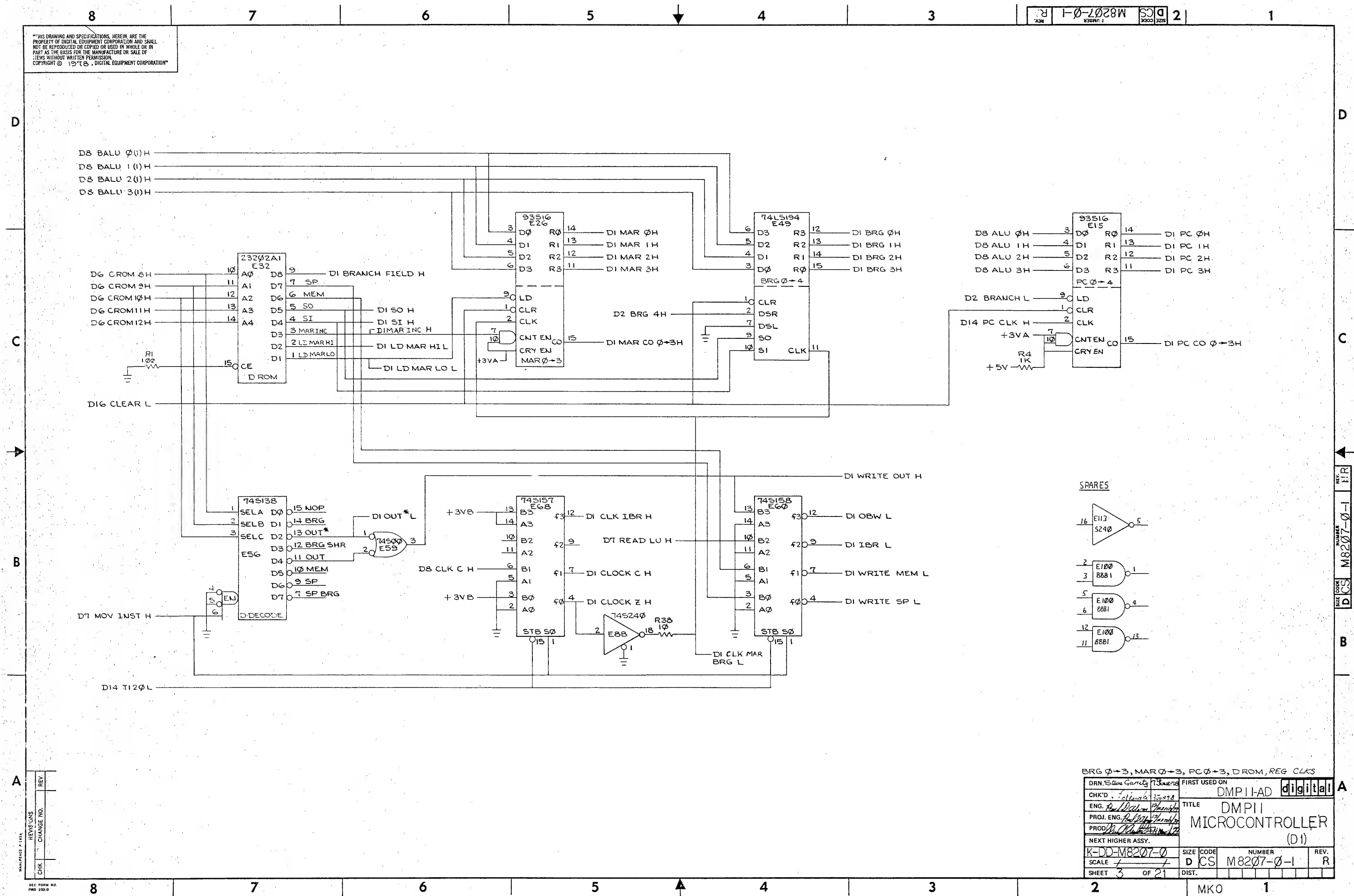
- 1 GEN: NOTE 1. 1004813-00 MAY BE USED INSTEAD OF 1012084-01.
2 GEN: NOTE 2. 1211164-01 MAY BE USED INSTEAD OF 1211164-00

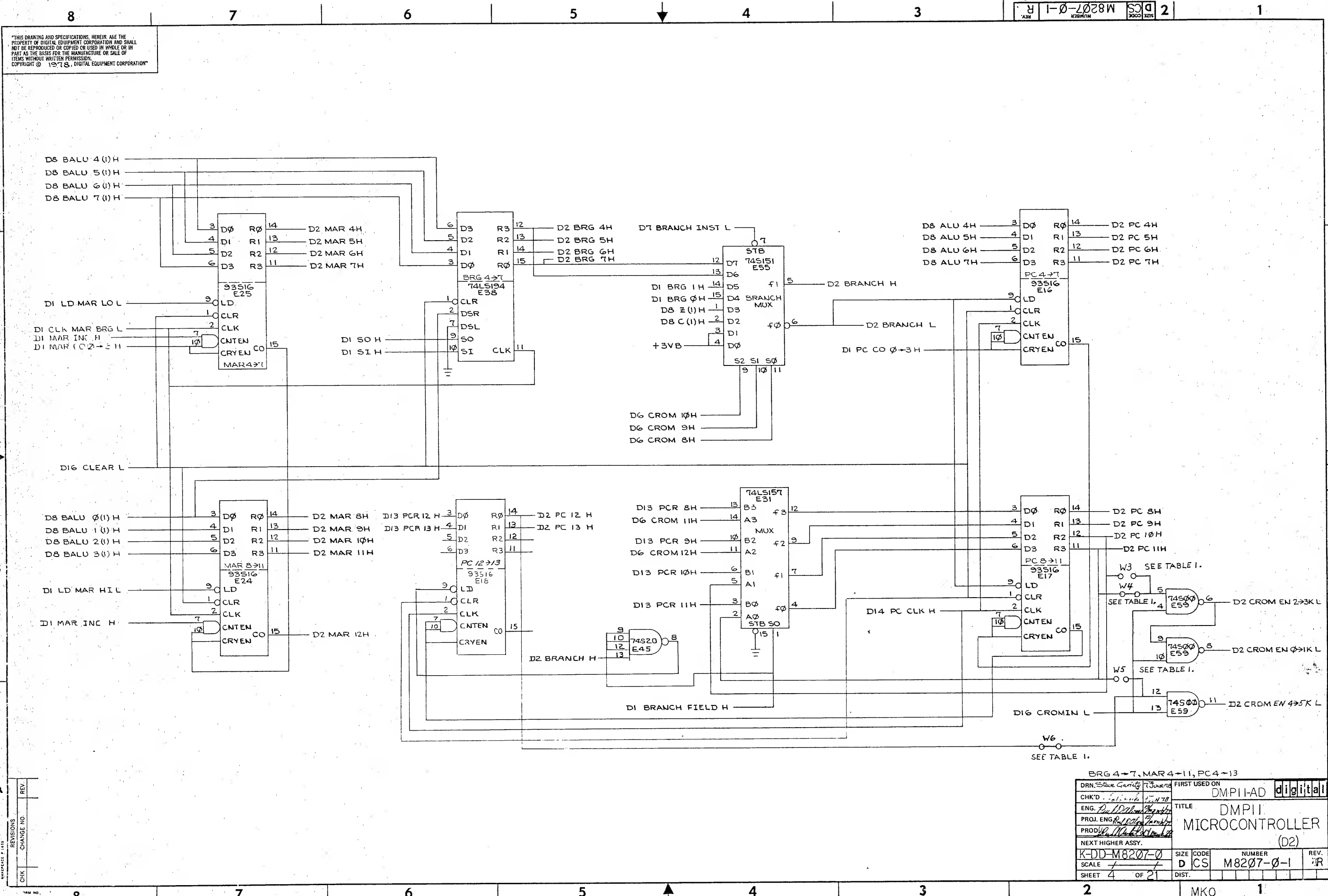
D	I	G	I	T	A	L	TITLE	SECTION A	OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							DMP11 MICROCONTROLLER			K	PL	M8207-0-DBP	T

DRN: <u>SGN Ganity</u> <u>17 June 78</u>		FIRST USED ON		DMP11-AD		digital		A	
CHK'D <u>G. Kellomaki</u> <u>17 June 78</u>		TITLE							
ENG. <u>Paul Palmer</u> <u>17 June 78</u>		DMP11							
PROJ. ENG. <u>Paul King</u> <u>17 June 78</u>		MICROCONTROLLER							
PROD. <u>John Palmer</u> <u>17 June 78</u>									
NEXT HIGHER ASSY.									
K-DD-M8207-0		SIZE		CODE		NUMBER		REV.	
SCALE <u>1</u>		D		CS		M8207-0-1		R	
SHEET <u>2</u>		OF <u>2</u>		DIST.					









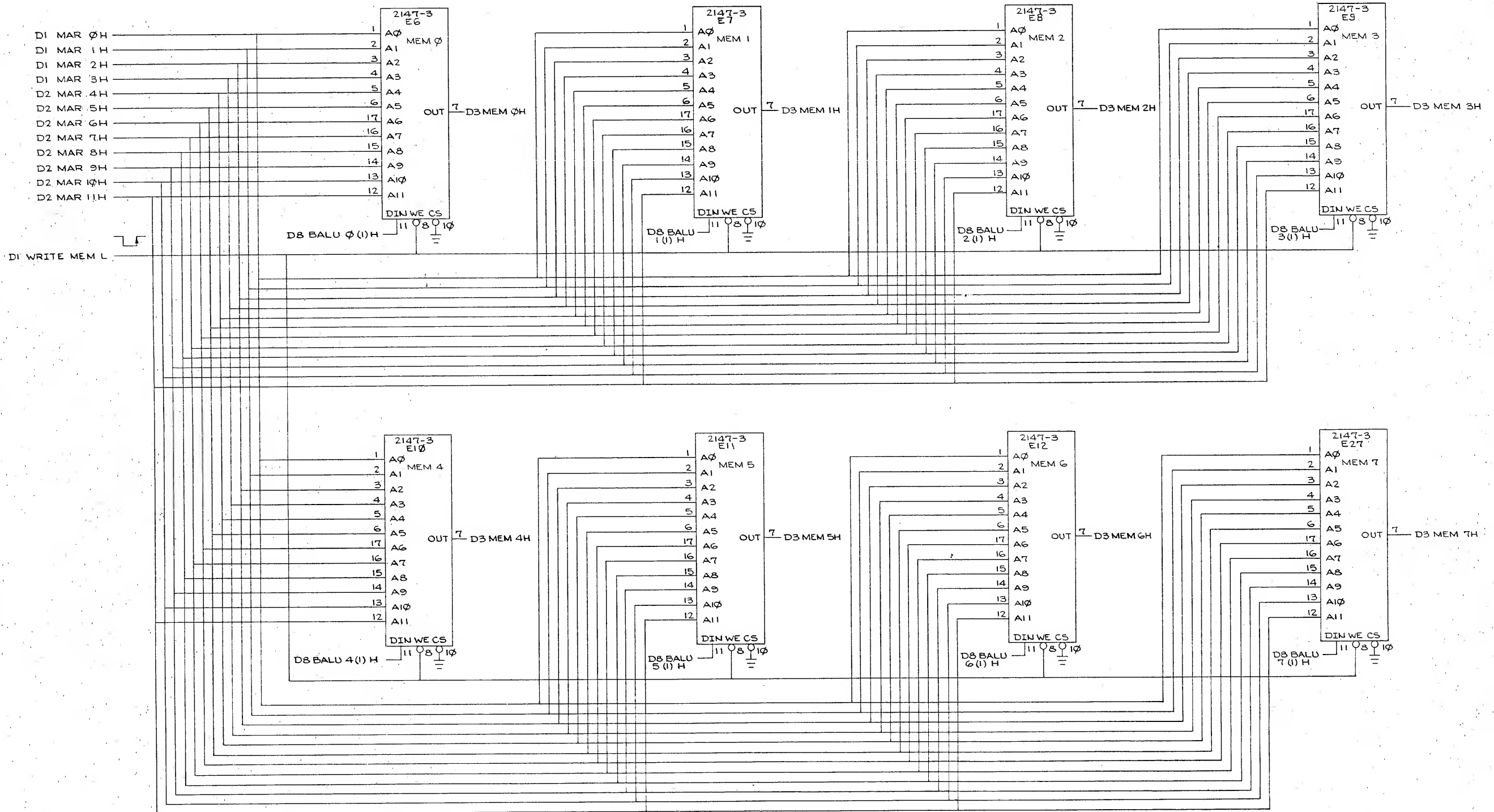
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BRG 4-7, MAR 4-11, PC 4-13		FIRST USED ON	
DRN. Steve Garity 7/20/78		DMP11-AD digital	
CHK'D. John A. 10/2/78		TITLE	
ENG. Paul D. 10/2/78		DMP11	
PROJ. ENG. 10/2/78		MICROCONTROLLER	
PROD. 10/2/78		(D2)	
NEXT HIGHER ASSY.			
K-DD-M8207-0		NUMBER	
SCALE 1/1		M8207-0-1	
SHEET 4 OF 21		REV.	
		R	

REV.	
CHG.	
REVISIONS	
CHANGE NO.	

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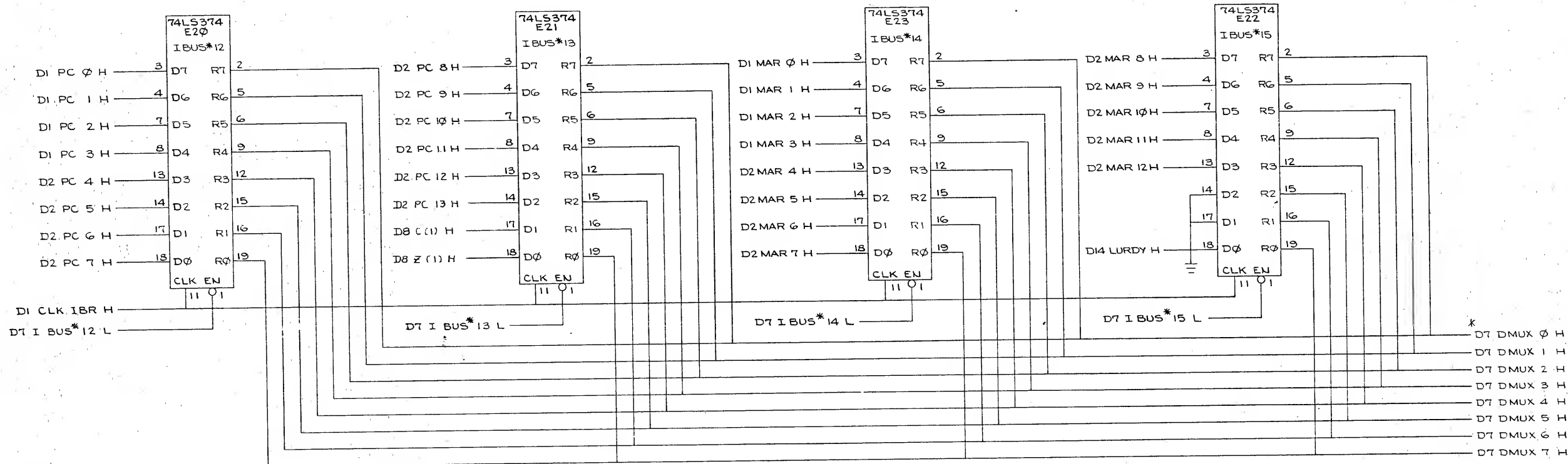
1-0-1028 M8207-0-1 2



MAIN MEMORY 0-7	
DRN. <i>Sam Garity</i> (June 78)	FIRST USED ON
CHK'D: <i>Sam Garity</i> (June 78)	TITLE
ENG. <i>Sam Garity</i> (June 78)	DMP11
PROJ. ENG. <i>Sam Garity</i> (June 78)	MICROCONTROLLER
PROD. <i>Sam Garity</i> (June 78)	(D3)
NEXT HIGHER ASSY.	
K-DD-M8207-0	SIZE CODE
SCALE 1	D CS
SHEET 5 OF 21	NUMBER
	M8207-0-1
	REV.
	R

MKO

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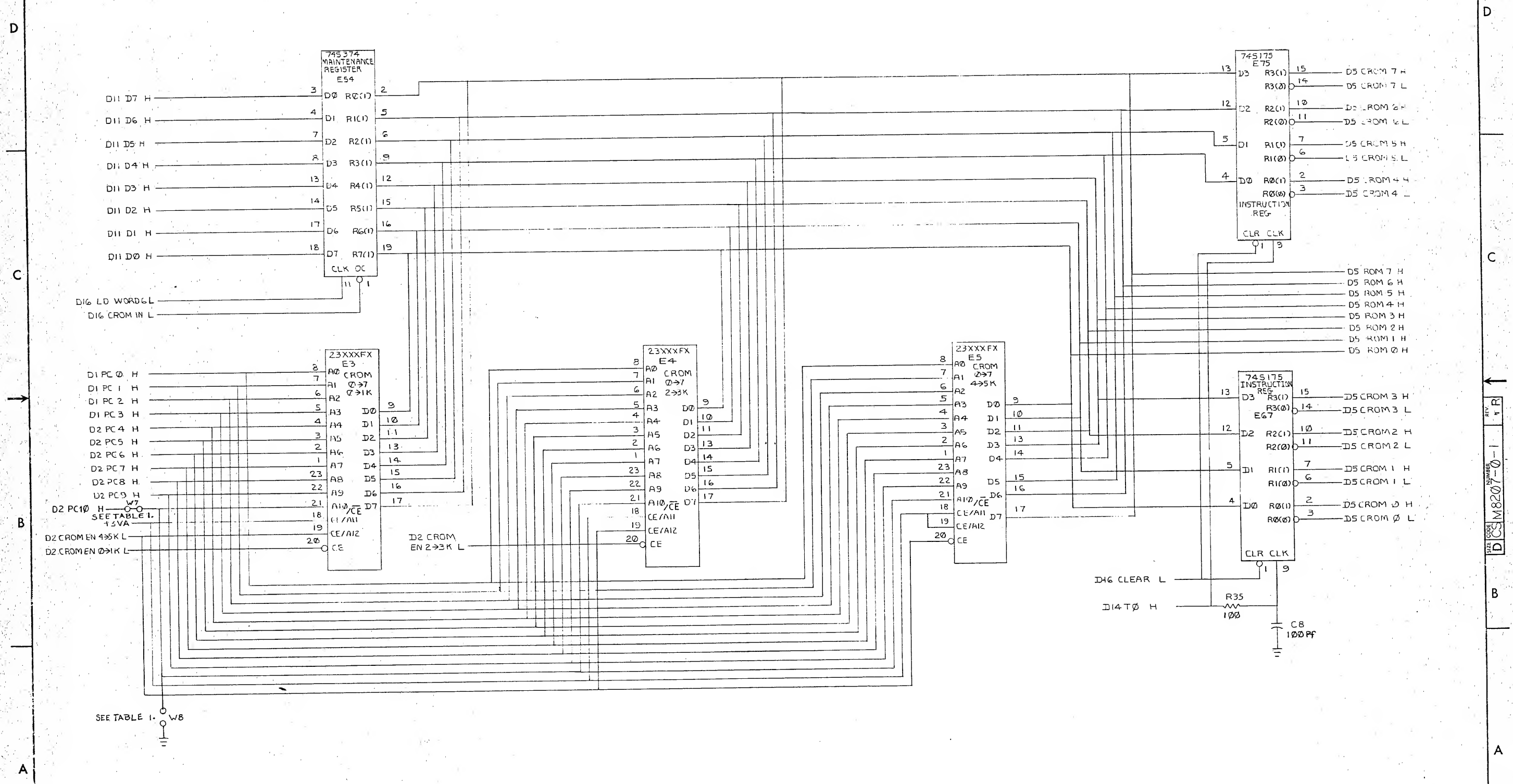


* DMUX SIGNALS ARE TRI STATE

IBUS* REGISTER 12-15			
DRN: Steve Garity	DESIGNED BY	FIRST USED ON	DMP11-AD digital
CHK'D: [Signature]	DATE: 1/1/79	TITLE	DMP11 MICROCONTROLLER (D4)
ENG: Paul D. [Signature]	PROJECT	PROJECT	
PROJ. ENG: [Signature]	PROD. [Signature]	DATE: 1/1/79	
NEXT HIGHER ASSY.			
K-DD-M8207-0		SIZE	CODE
SCALE		D	CS
SHEET 6 OF 21		NUMBER	REV.
		M8207-0-1	R
		DIST.	

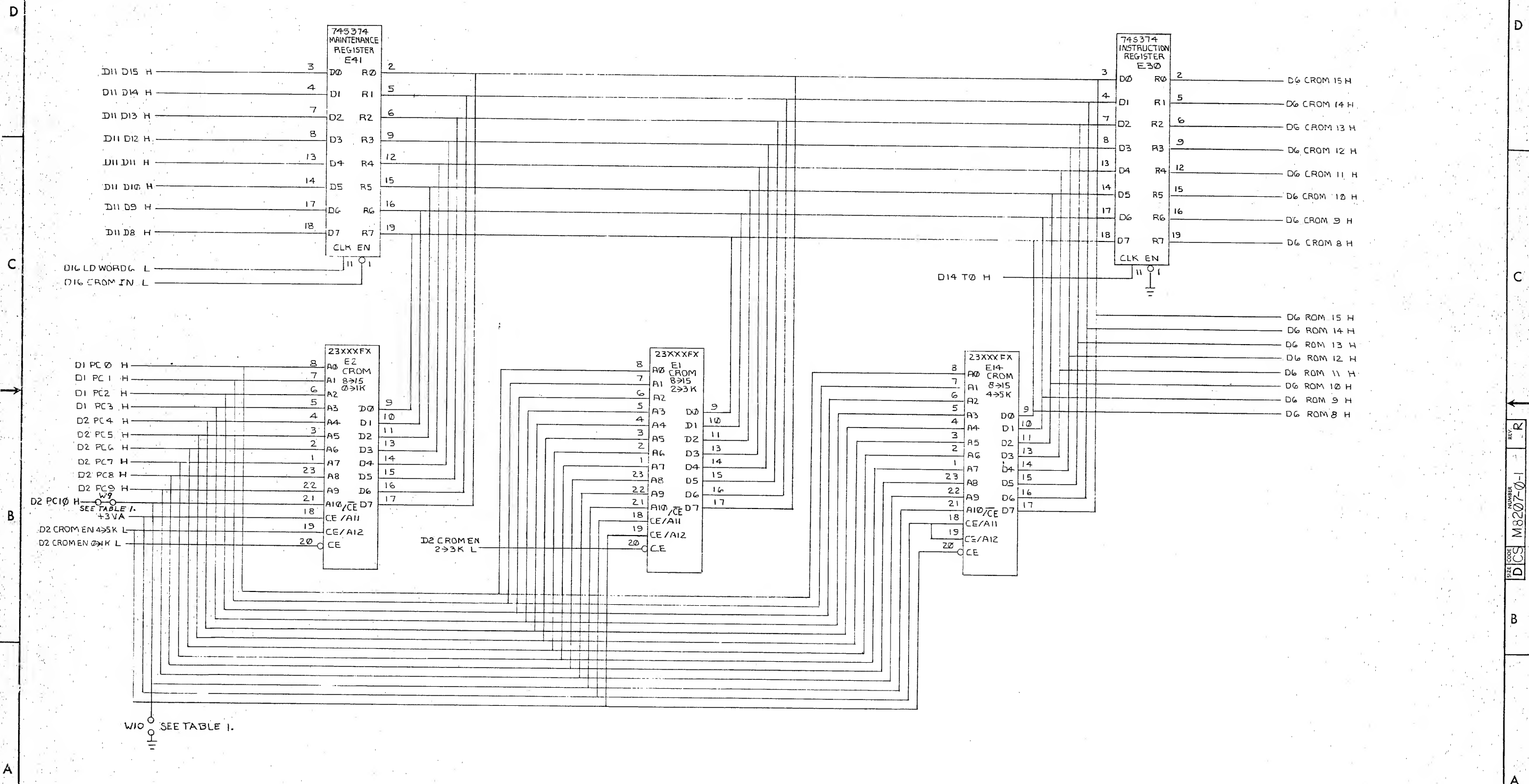
REVISIONS	
CHK	CHANGE NO.

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REV. 1-0-2028W DCS M8207-0-1 2

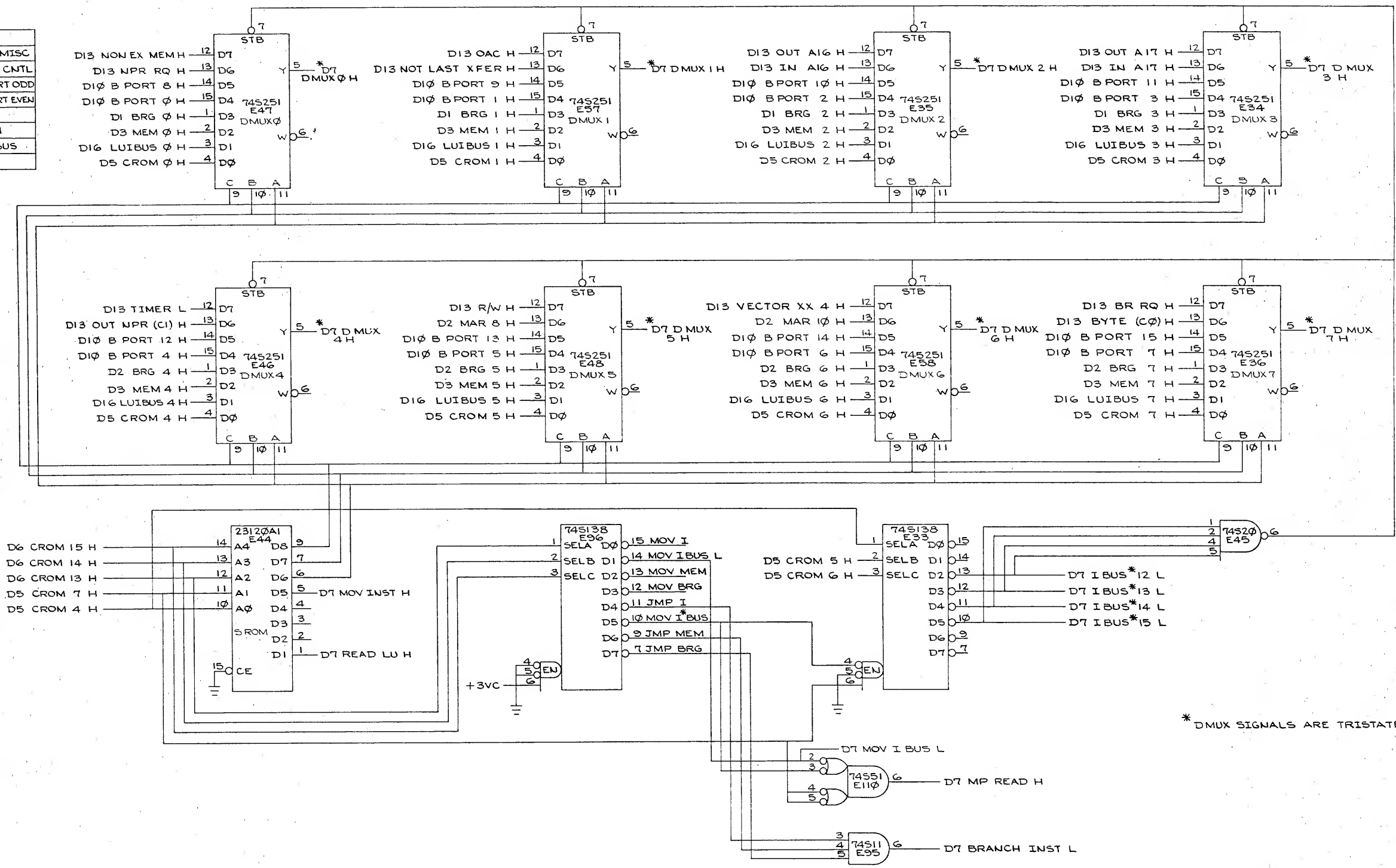


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE DMP11 MICROCONTROLLER		(D6)		SIZE CODE	NUMBER	REV.
SCALE		SHEET 8 OF 21		DIST.	DCS M8207-0-1	R
MK						

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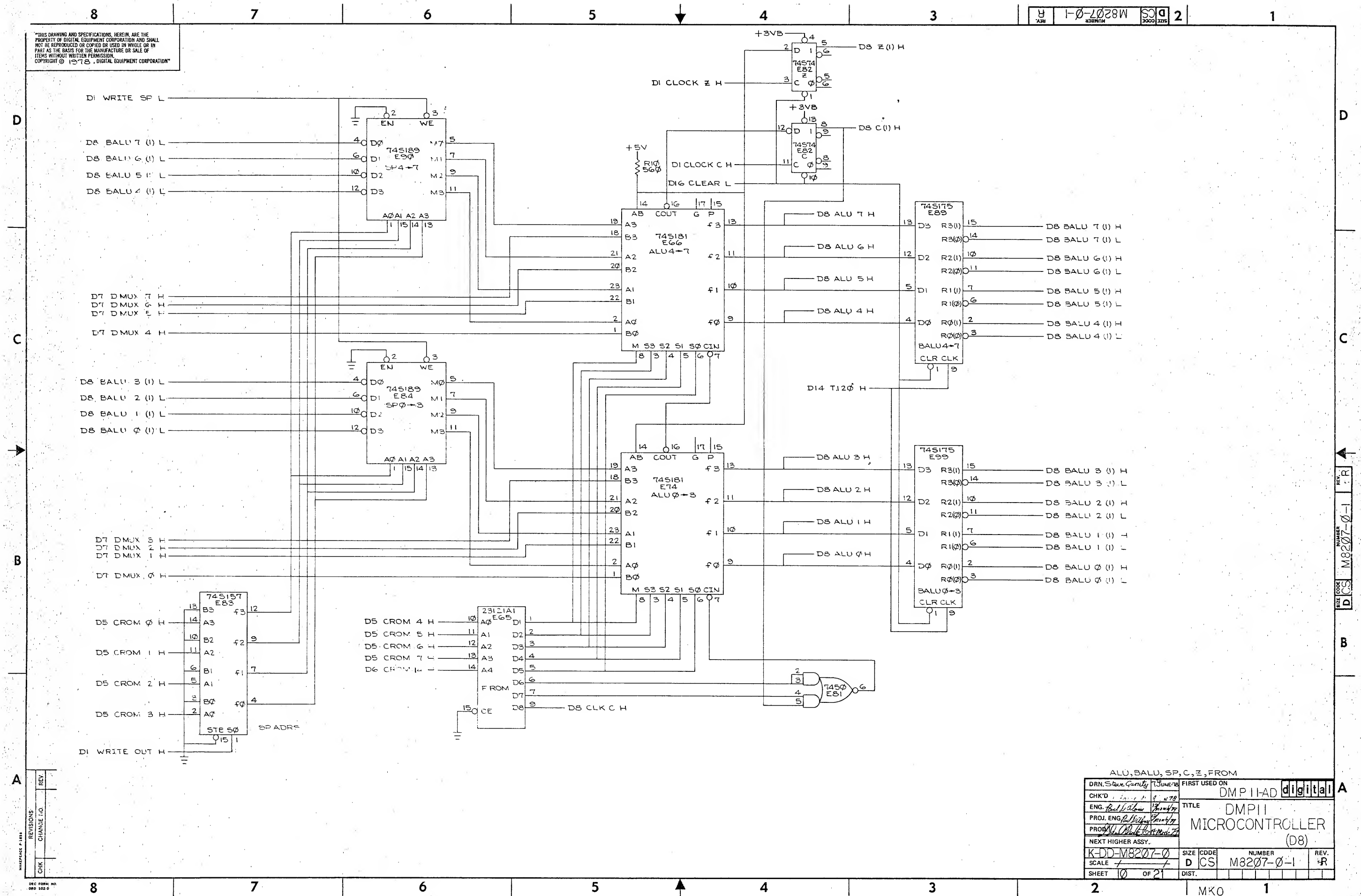
74S251		
9	10	11
H	H	H
H	H	L
H	L	H
H	L	L
L	H	H
L	H	L
L	L	H
L	L	L

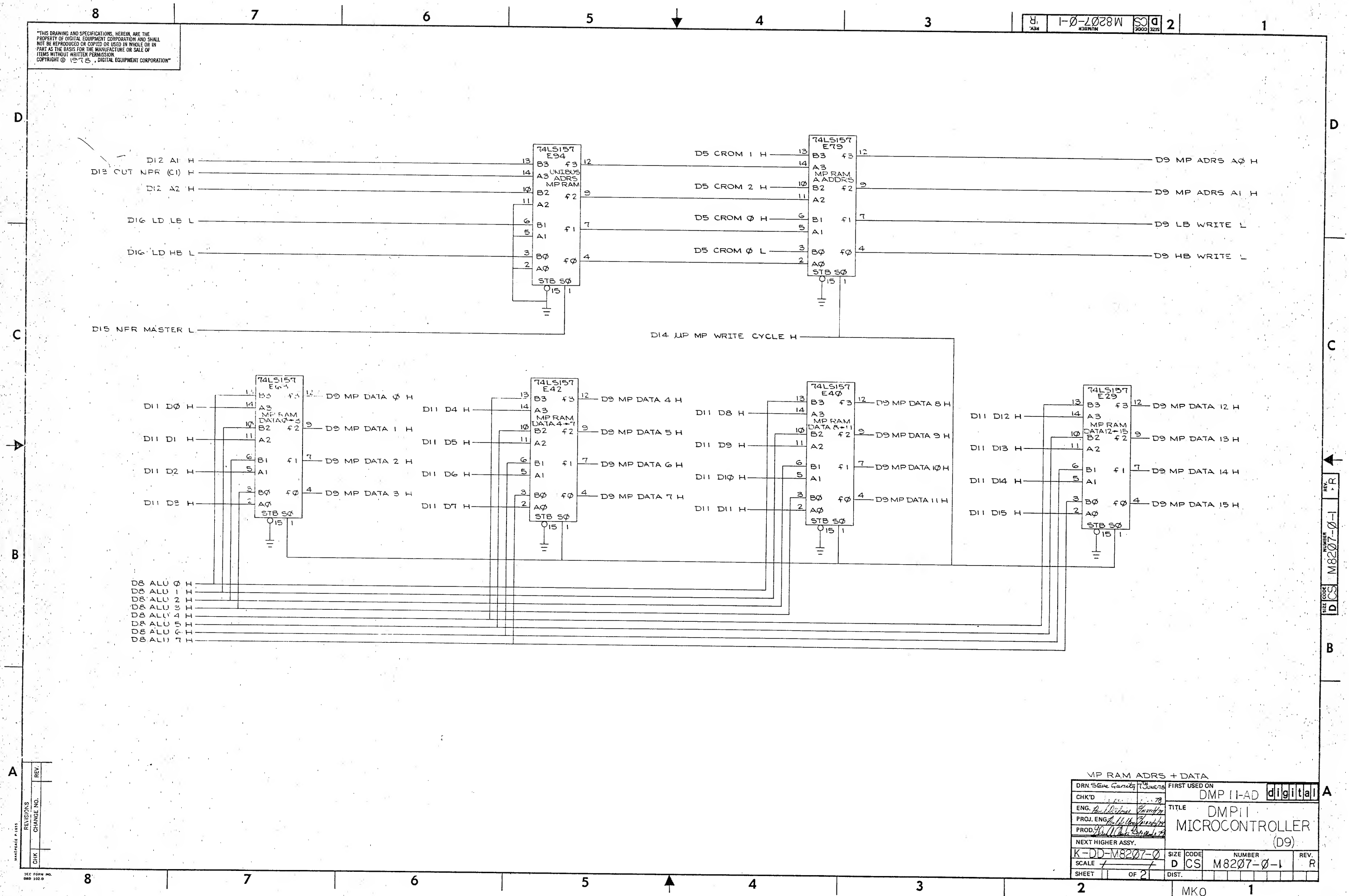


* DMUX SIGNALS ARE TRISTATE

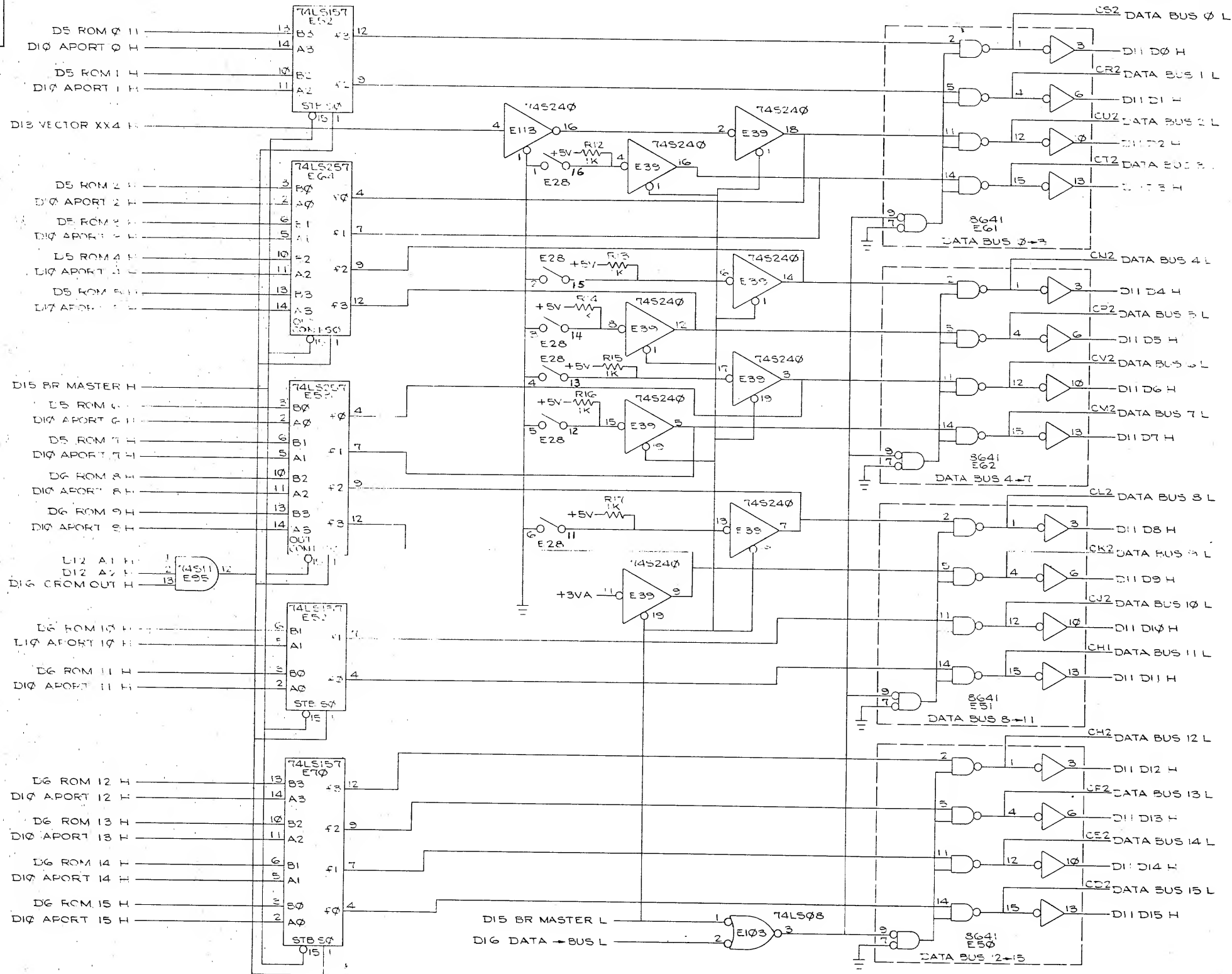
DMUX, SROM, S DECODE	
DRN. Slave Garity	FIRST USED ON
CHK'D	DMP II-AD digital
ENG. Paul D. Brown	TITLE
PROJ. ENG. R. D. Brown	DMP II MICROCONTROLLER
PROD. R. D. Brown	(D7)
NEXT HIGHER ASSY.	
K-DD-M8207-0	SIZE CODE
SCALE 1	D CS
SHEET 9 OF 21	NUMBER
	M8207-0-1
	REV. 1 R
	DIST.

REV.	CHANGE NO.
1	1





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UNIBUS DATA INTERFACE			
DRN: Sam Garity 11 JUN 78	CHK'D: Sam Garity 11 JUN 78	ENG: Paul Dabner 11 JUN 78	PROJ. ENG: Paul Dabner 11 JUN 78
NEXT HIGHER ASSY.		TITLE: DMP11 MICROCONTROLLER (DI1)	
K-DD-M8207-0	SCALE: 1	SIZE: D	NUMBER: M8207-0-1
SHEET: 13	OF: 2	DIST.	REV: R

REV.	CHANGE NO.
1	1

DEC FORM NO.

REV. R
M8207-0-1
B

MKO

1

8

7

6

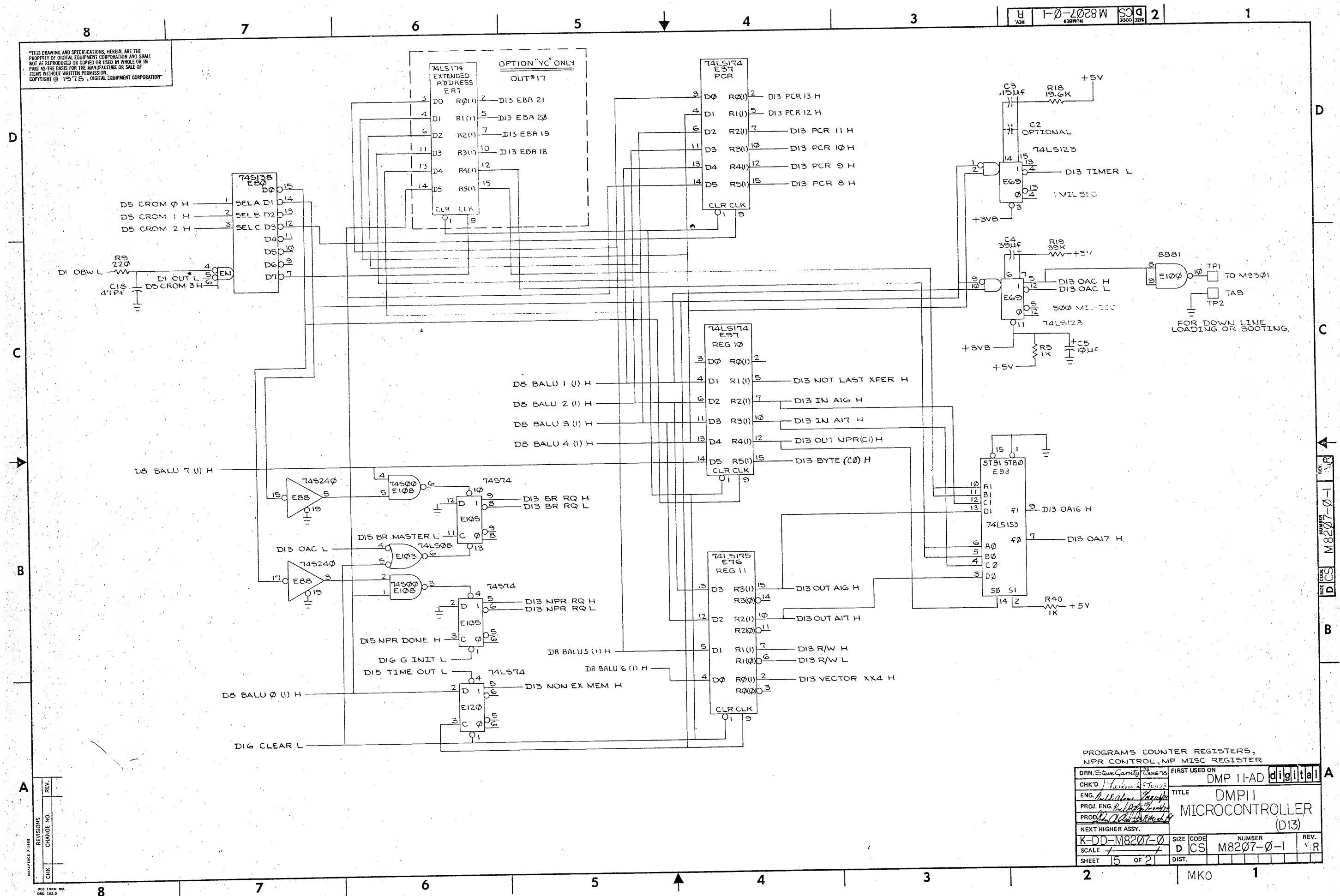
5

4

3

12





D



1

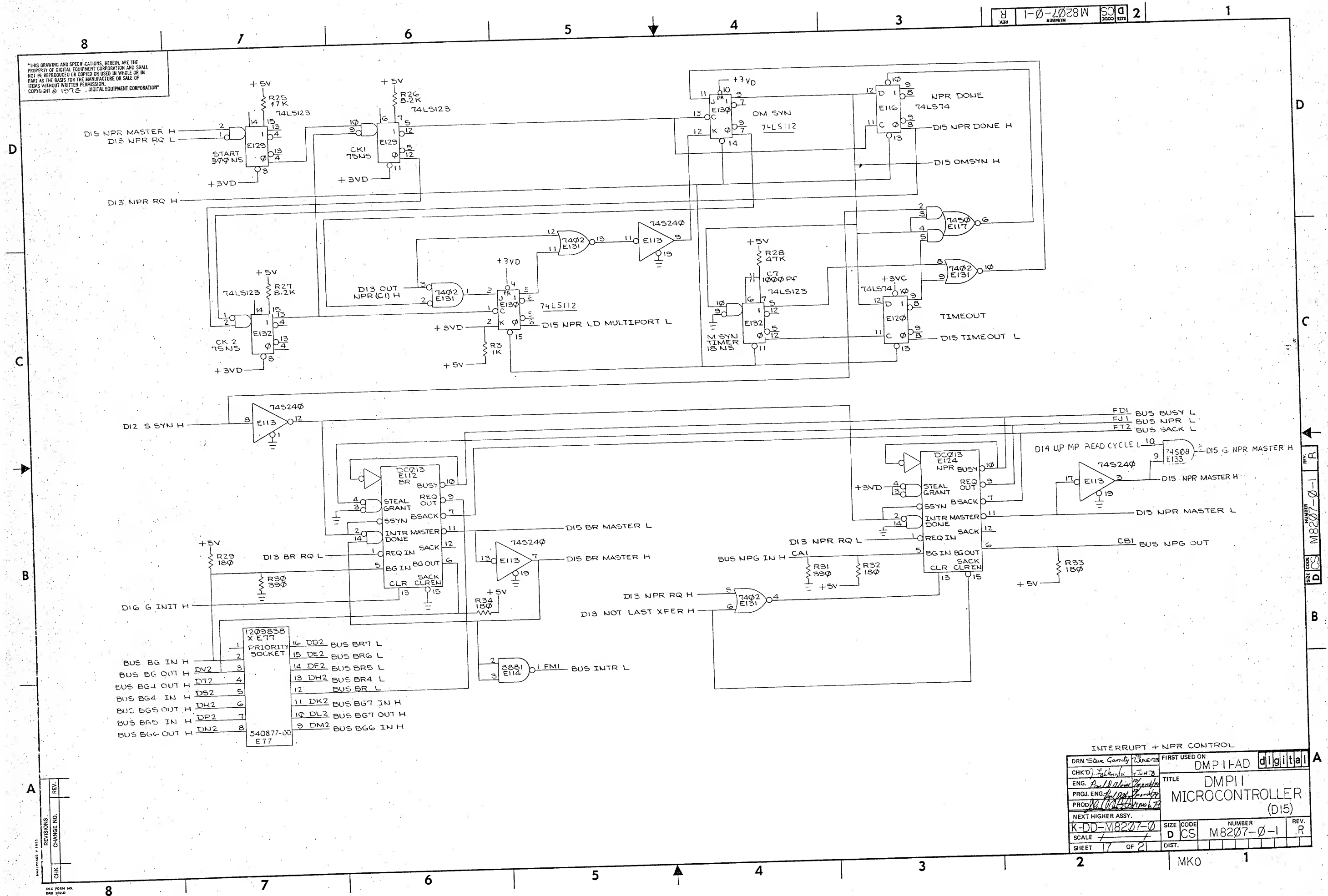
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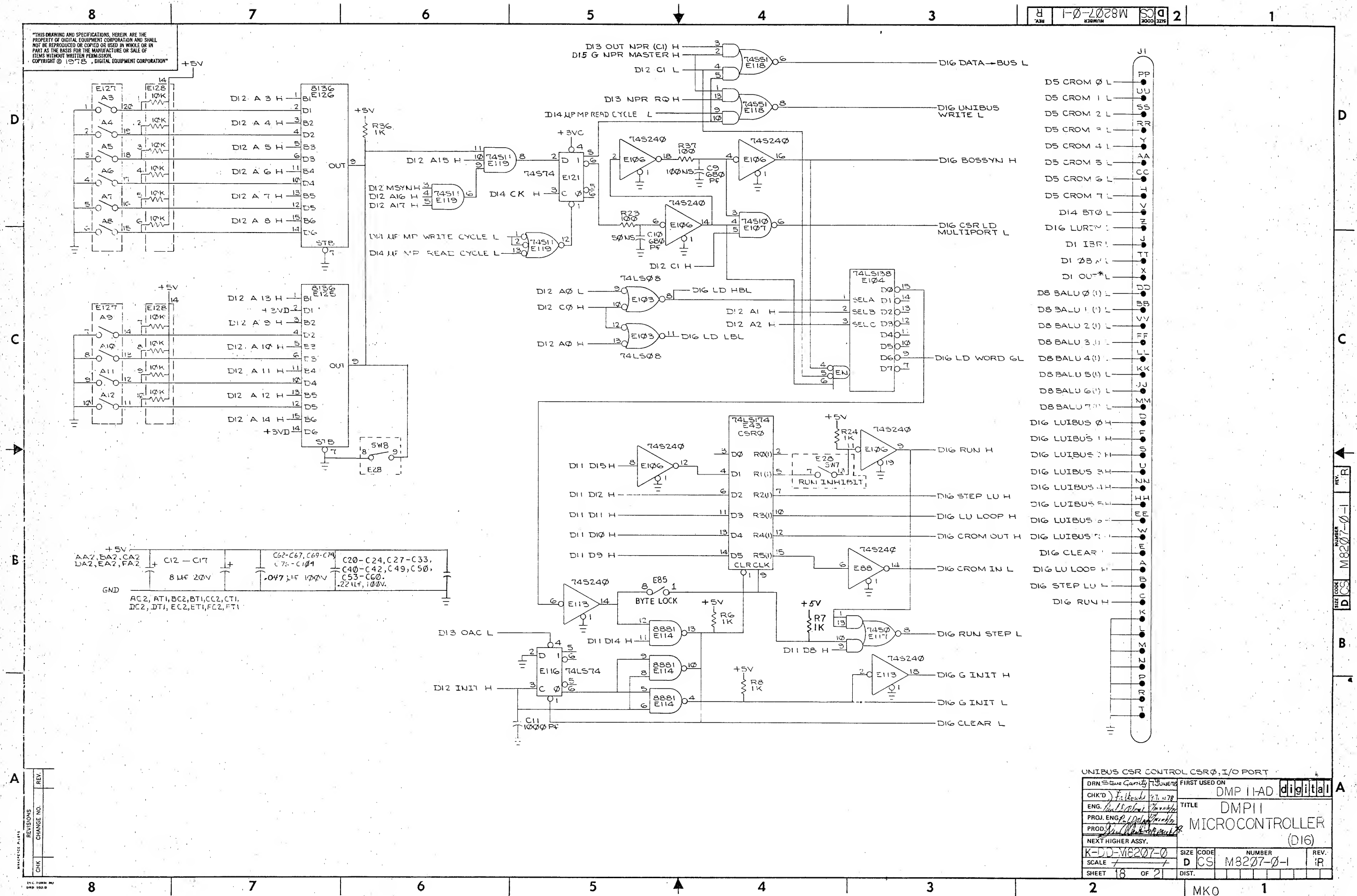
8

• • •

DEC FORM NO
DPO 107-0

	MKO
--	-----





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2	D	CS	M8207-0-1	R
---	---	----	-----------	---

[illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	BERG
D3 MEM 0 H			1				1										
MEM 1 H			1				1										
MEM 2 H			1				1										
MEM 3 H			1				1										
MEM 4 H			1				1										
MEM 5 H			1				1										
MEM 6 H			1				1										
MEM 7 H			1				1										
D5 CROM 0 H					1		1	1	1				1				
CROM 0 L					1				1							1	PP
CROM 1 H					1		1	1	1				1				
CROM 1 L					1											1	UU
CROM 2 H					1		1	1	1				1				
CROM 2 L					1											1	SS
CROM 3 H					1		1	1					1				
CROM 3 L					1									1		1	RR
CROM 4 H					1		3	1									
CROM 4 L					1											1	Y
CROM 5 H					1		2	1		1							
CROM 5 L					1											1	AA
CROM 6 H					1		2	1		1							
CROM 6 L					1											1	CC
CROM 7 H					1		5	1									
CROM 7 L					1											1	H
ES) ROM 0-7 H					4						1						
D6 CROM 8 H	2	1					1										
CROM 9 H	2	1					1										
CROM 10 H	2	1					1										
CROM 11 H	1	1					1										
CROM 12 H	1	1					1										
CROM 13 H							1	2									
CROM 14 H							1	2	1								
CROM 15 H							1	2			1						
ES) ROM 8-15 H							4					1					
D7 DMUX 0 H				4				1	1								
DMUX 1 H				4				1	1								
DMUX 2 H				4				1	1								
DMUX 3 H				4				1	1								
DMUX 4 H				4				1	1								
DMUX 5 H				4				1	1								
DMUX 6 H				4				1	1								
DMUX 7 H				4				1	1								
MOV INST H	3							1									
MP READ H								1						3			
BRANCH INST L		1						1									
READ LU H		1						1									
IBUS*12 L					1			2									
13 L					1			2									
14 L					1			2									
15 L					1			2									
MOVIBUS L								2						1			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	BORG
DB ALU Ø H	1								2	2							
ALU 1 H	1								2	2							
ALU 2 H	1								2	2							
ALU 3 H	1								2	2							
ALU 4 H		1							2	2							
ALU 5 H		1							2	2							
ALU 6 H		1							2	2							
ALU 7 H		1							2	2							
BALU Ø (1) H	2	2	1						1				4				
BALU Ø (1) L									2							1	DD
BALU 1 (1) H	2	1	1						1				4				
BALU 1 (1) L									2							1	BB
BALU 2 (1) H	2	1	1						1				4				
BALU 2 (1) L									2							1	VV
BALU 3 (1) H	2	1	1						1				4				
BALU 3 (1) L									2							1	FF
BALU 4 (1) H		2	1						1				4				
BALU 4 (1) L									2							1	LL
BALU 5 (1) H		2	1						1				3				
BALU 5 (1) L									2							1	KK
BALU 6 (1) H		2	1						1				1				
BALU 6 (1) L									2							1	JJ
BALU 7 (1) H		2	1						1				2				
BALU 7 (1) L									2							1	MM
C (1) H		1		1					2								
CLKC H	1								1								
Σ (1) H		1		1					1								
DØ HB WRITE L									1	2							
LB WRITE L									1	2							
MP ADRS A Ø H									1	4							
MP ADRS A 1 H									1	4							
MP DATA Ø H									1	1							
MP DATA 1 H									1	1							
MP DATA 2 H									1	1							
MP DATA 3 H									1	1							
MP DATA 4 H									1	1							
MP DATA 5 H									1	1							
MP DATA 6 H									1	1							
MP DATA 7 H									1	1							
MP DATA 8 H									1	1							
MP DATA 9 H									1	1							
MP DATA 10 H									1	1							
MP DATA 11 H									1	1							
MP DATA 12 H									1	1							
MP DATA 13 H									1	1							
MP DATA 14 H									1	1							
MP DATA 15 H									1	1							
D1Ø APORT Ø H									1	1							
APORT 1 H									1	1							
APORT 2 H									1	1							
APORT 3 H									1	1							
APORT 4 H									1	1							
APORT 5 H									1	1							
APORT 6 H									1	1							

[illegible]

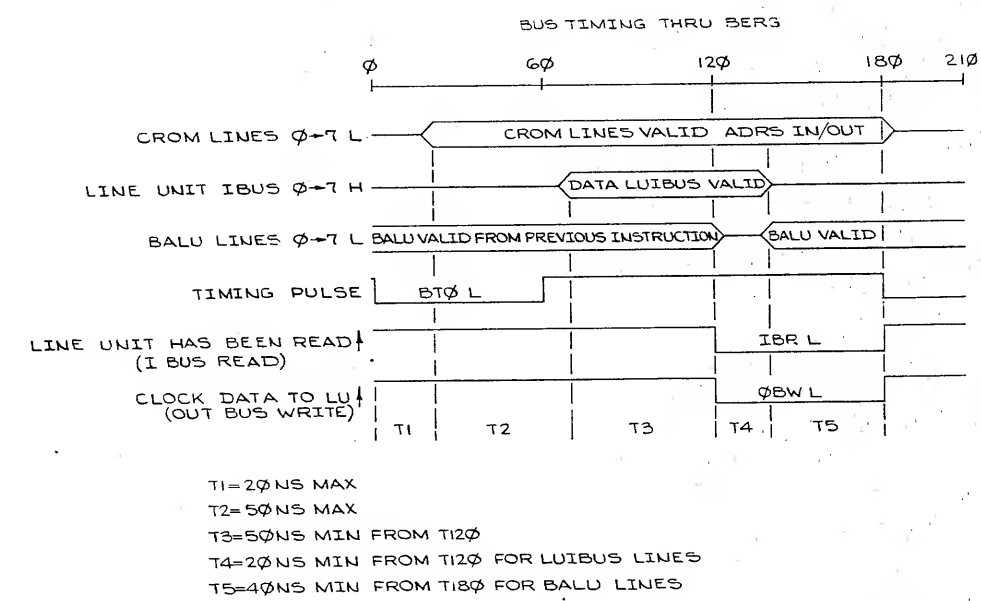
REVISIONS		
CHK	CHANGE NO.	REV.

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	BUS
D11 DATA BUS 15 L												2						CD2
D12	A0 H											2					1	
	A0 L											1					1	
	A1 H							1	1	1							1	
	A2 H							1	1	1							1	
	A3 H									1							1	
	A4 H											1					1	
	A5 H												1				1	
	A6 H												1				1	
	A7 H												1				1	
	A8 H													1			1	
	A9 H													1			1	
	A10 H													1			1	
	A11 H													1			1	
	A12 H													1			1	
	A13 H													1			1	
	A14 H													1			1	
	A15 H													1			1	
	A16 H													1			1	
	A17 H													1			1	
	C0 H													1			2	
	C1 H													2			1	
	C1 L													1			2	
DATA BUS	A0 L													2				EH2
DATA BUS	A1 L													2				EH1
DATA BUS	A2 L													2				EF1
DATA BUS	A3 L													2				EV2
DATA BUS	A4 L													2				EU2
DATA BUS	A5 L													2				EV1
DATA BUS	A6 L													2				EU1
DATA BUS	A7 L													2				EP2
DATA BUS	A8 L													2				EN2
DATA BUS	A9 L													2				ER1
DATA BUS	A10 L													2				EP1
DATA BUS	A11 L													2				EL1
DATA BUS	A12 L													2				EC1
DATA BUS	A13 L													2				EK2
DATA BUS	A14 L													2				EK1
DATA BUS	A15 L													2				ED2
DATA BUS	A16 L													2				EE2
DATA BUS	A17 L													2				ED1
DATA BUS	AC L													2				CV1
DATA BUS	C0 L													2				EJ2
DATA BUS	C1 L													2				EF2
DATA BUS	MSYN L													2				EE1
DATA BUS	SSYN L													2				EJ1
	INIT H													1			4	
	MSYN H													1			1	
	SSYN H													1		2		
D13	PCR 8 H		1												1			
	PCR 9 H		1												1			
	PCR 10 H		1												1			
	PCR 11 H		1												1			
	BR RQ H						1								1			
	BR RQ L														1		1	
	BYTE (C0) H						1					1	1	1				
	IN A16 H						1								2			

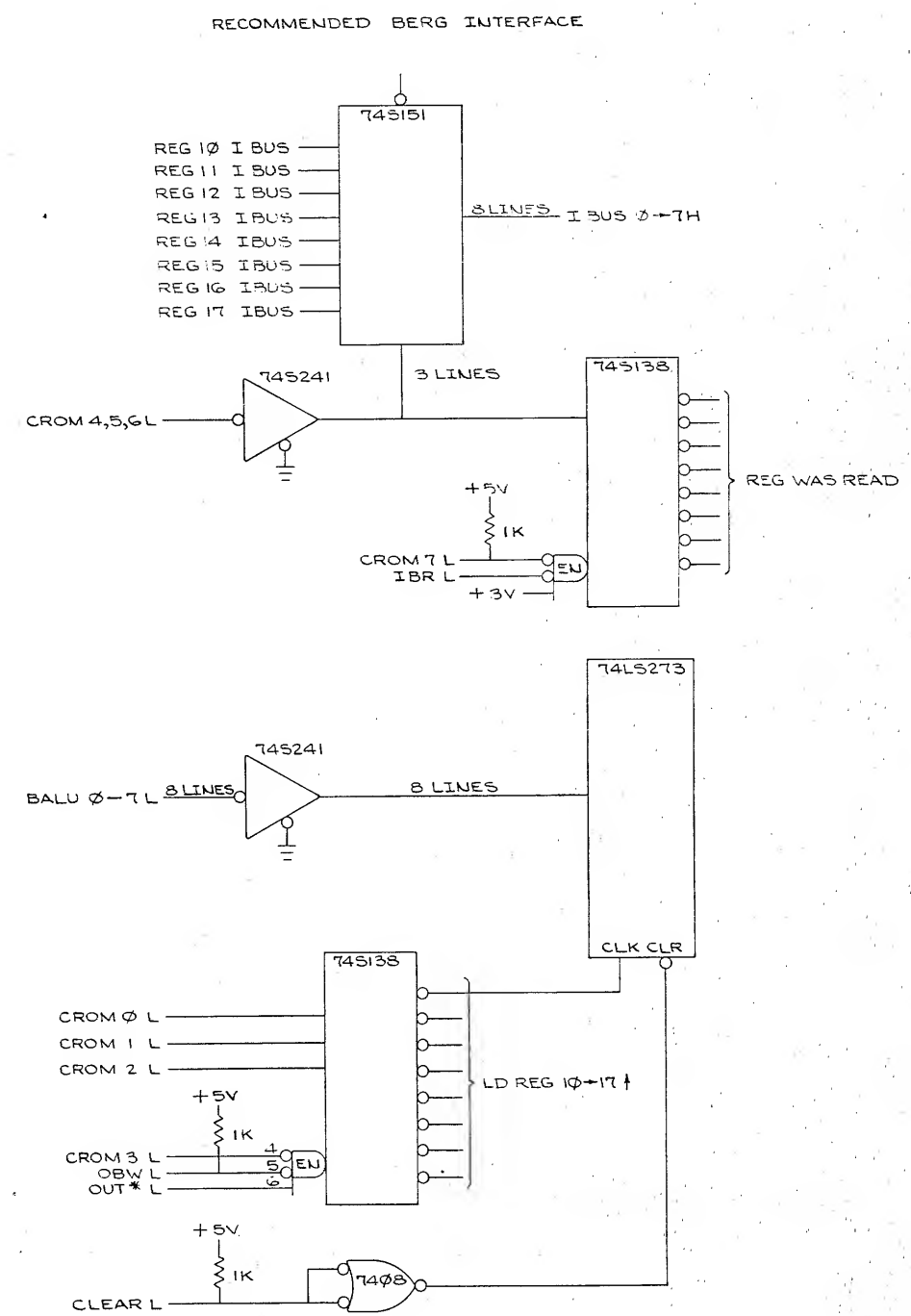
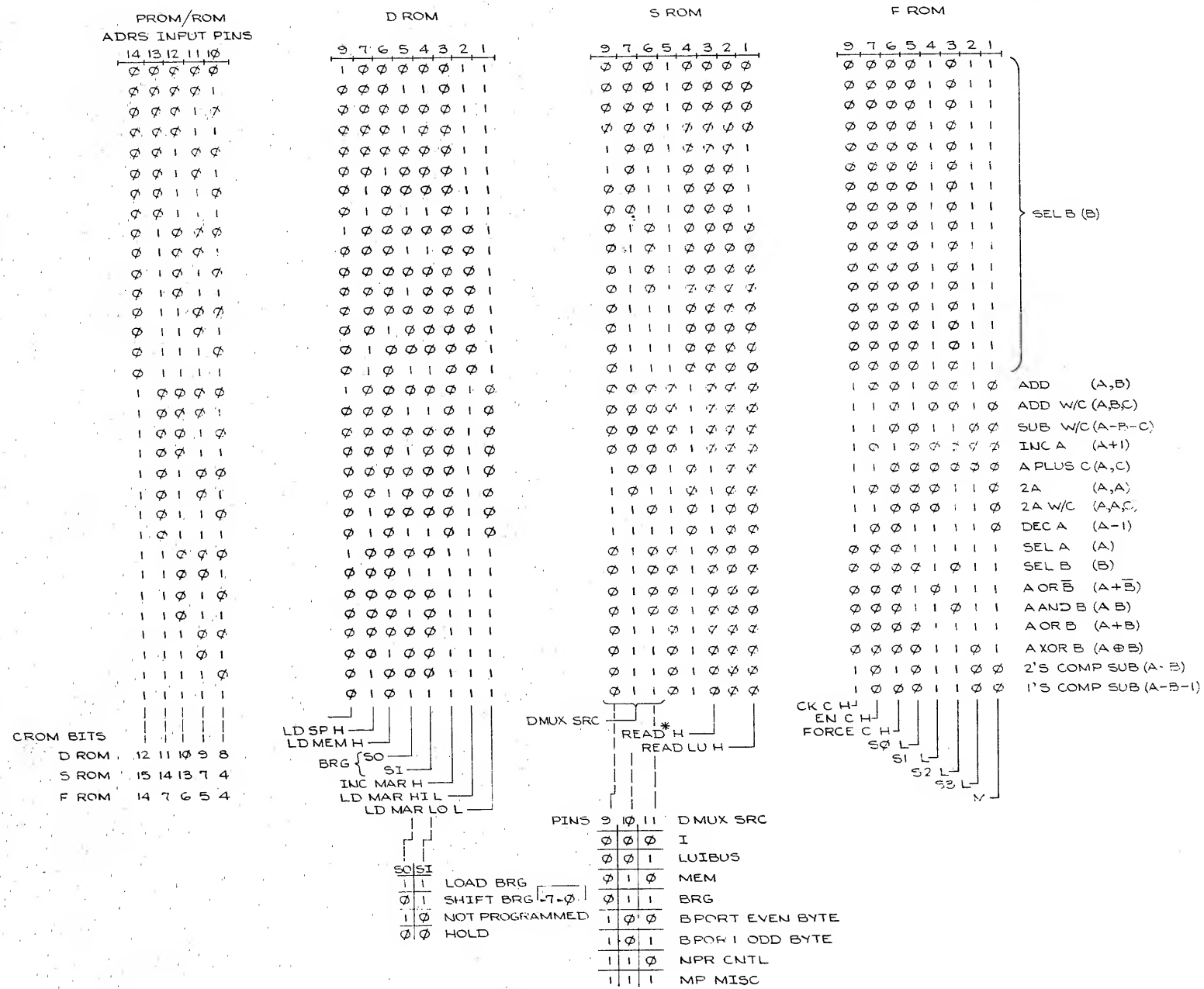
[illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	BER
DIG CLEAR L	3	6			2			4						6	6	6	E
CROM IN L	3			1	1		1									1	
CROM OUT H											1					1	
CSR LD MULTIPOST L										1						1	
BOSSYN H												1				2	
DATA → BUS L											1					1	
G INIT L													1			3	
LD HB L									1							2	
LD LB L									1							1	
LD WORD G L				1	1	1										1	
LUIBUS Ø H							1									1	D
LUIBUS 1 H							1									1	F
LUIBUS 2 H							1									1	S
LUIBUS 3 H							1									1	U
LUIBUS 4 H							1									1	NN
LUIBUS 5 H							1									1	HH
LUIBUS 6 H							1									1	EE
LUIBUS 7 H							1									1	W
LU LOOP H																2	A
RUN H																4	C
RUN STEP L														1		1	
STEP LU H																2	B
UNIBUS WRITE L									2				1			1	
G INIT H														1	1		
LURDY L														2		1	Z

[illegible]

REVISIONS		
CHK	CHANGE NO.	REV.

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DO NOT USE LS CHIPS FOR RECEIVERS.

DRN. Save Garity	7/20/78	FIRST USED ON	DMP 11-AD
CHK'D	7/20/78	TITLE	DMP11
ENG. P. J. DeLoach	7/20/78	PROJECT	MICROCONTROLLER
PROJ. ENG. P. J. DeLoach	7/20/78	SCALE	1
NEXT HIGHER ASSY.		SHEET	2 OF 2
K-DD-M8207-0		SIZE CODE	D CS
SCALE		NUMBER	M8207-0-1
SHEET		DIST.	

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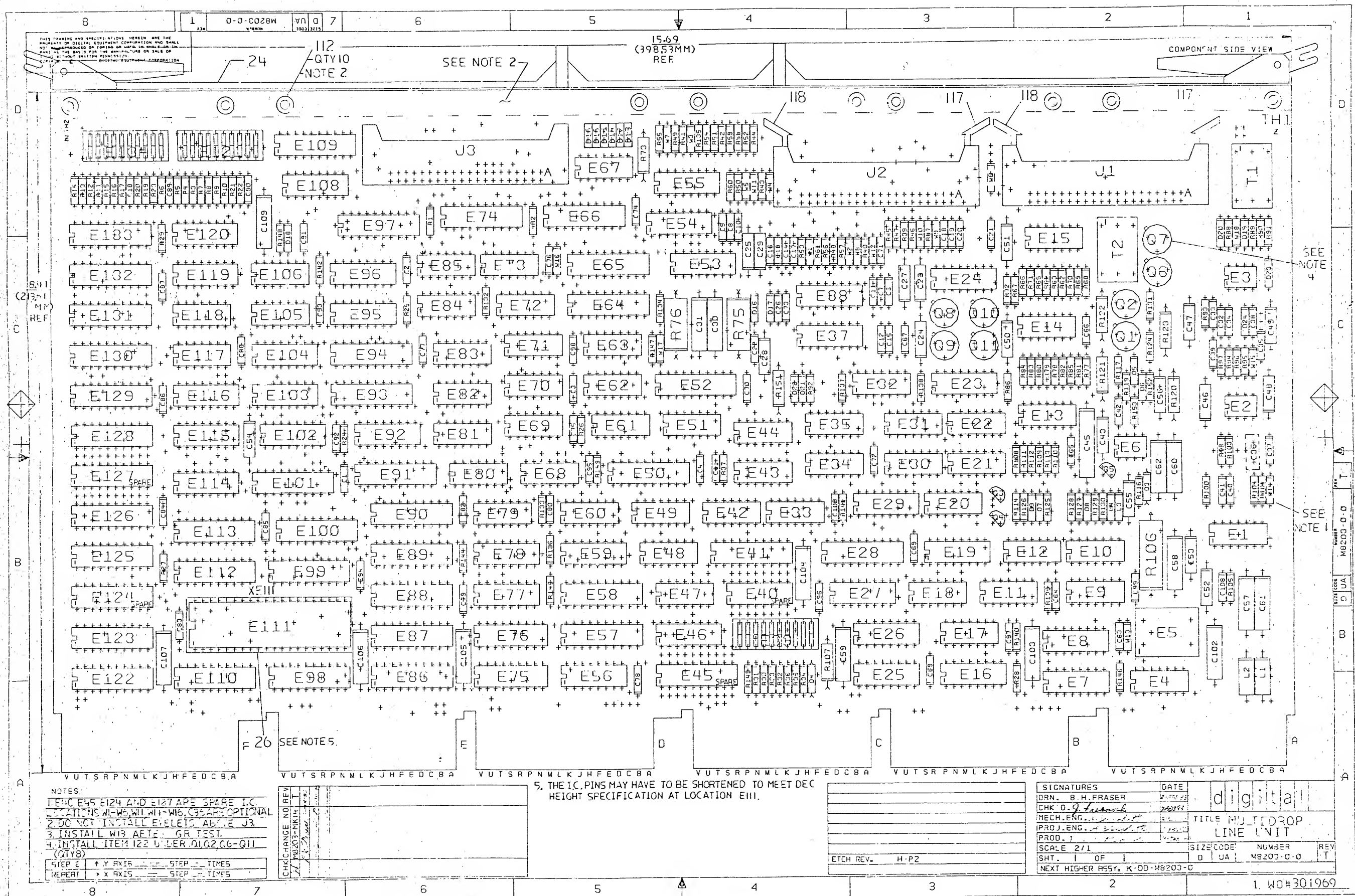
DRAWING DIRECTORY

ITEM	DRAWING NO.	NO. OF SHTS	PART NO.	DESCRIPTION	TYPE	REVISIONS									
						T1	T2	T3							
1	PRODUCT REV		M8203-00	MULTIDROP LINE UNIT	-										
2	D-UA-M8203-0-0	1		MULTIDROP LINE UNIT	-	T	-	-							
3	K-PL-M8203-0-0	4		MULTIDROP LINE UNIT (DBP)	-	T	-	-							
4	D-CS-M8203-0-1	15		MULTIDROP LINE UNIT	-	T	T	T							
5	K-PC-M8203-0-DBC			PC DESIGN DATA BASE	-	P	N	N							
6	D-UA-M8203-0-2	2		MULTIDROP LINE UNIT WITH WIRE INK	-	-	A	-							
7	K-PL-M8203-0-2	4		MULTIDROP LINE UNIT (DBP) WITH WIRE INK	-	-	A	-							
8	D-UA-M8203-0-3	2		MULTIDROP LINE UNIT WITH HARDWARE	-	-	-	A							
9	K-PL-M8203-0-3	4		MULTIDROP LINE UNIT (DBP) WITH HARDWARE	-	-	-	A							
10	K-DD-5013292-0	1		DRAWING DIRECTORY ETCH BOARD	-	A	A	A							

NOTES: 1. T1 = REV H-P2 ETCH BOARD RELAYOUT
2. T2 = REV F-P2 ETCH BOARD WITH WIRE INK
3. T3 = REV F-P2 ETCH BOARD, HARDWARE

DD
REV P P P

REVISION HISTORY			CONT. REVISION HISTORY			DIGITAL									
ENG	ECO NUMBER	REV	ENG	ECO NUMBER	REV										
--	M8203-MK014	P				TITLE DRAWING DIRECTORY									
						MULTIDROP LINE UNIT									



LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5013292-0-0	5013292-00	DRILL AND ETCH BOARD	1		
2	2		1013466-06	100.0 MMF 50V 5% CER	2		C1,C37
3	3		1013466-18	330.0 MMF 50V 5% CER	1		C2
4	4		1013466-28	1000.0 MMF 50V 5% CER	1		C3
5	5		1013466-30	560.0 MMF 50V 5% CER	1		C4
6	6		1013466-05	56.0 MMF 50V 5% CER	11		C11-C21
7	7		1012784-00	.047 MFD 50V +80-20% CER	41		C22,C26,C63-C100,C108
8	8		1013466-11	.22 MFD 50V +80-20% Z5U CER	18		C23-C25,C27-C29,C43,C46-C56
9	9		1017472-00	10 MFD 35V +50-10% AL EL	15		C30,C31,C57-C62,C102-C107,C109
10	10		1013466-37	1200.0 MMF 50V 5% NPO CER	3		C32,C33,C34
11	11		1013466-01	10.0 MMF 50V 5% CER	2		C35,C39
12	12	BLANK		*** THIS ITEM IS NOT USED ***	-		
13	13		1013466-07	220.0 MMF 50V 5% CER	1		C38
14	14		1013466-24	47.0 MMF 50V 5% CER	2		C40,C41
15	15		1000075-00	25 MFD 25V +75-10% AL EL	1		C45
16	16		1013466-12	2200.0 MMF 50V 10% X7R CER	5		C6-C10
17	17		1100114-00	PIV= 25 IO=135 MA	10		D5-D8,D18-D21,D23,D24
18	18		1109943-00	VZ= 5.1 5% 1 W 1N4733A	1		D3
19	19		1109502-00	VZ= 12.0 10% 1 W 1N4742	1		D4
20	20		1104860-00	VZ= 3.3 5% 400 MW 1N746A	1		D9
21	21		1114136-00	LED 16MA 5V	6		D10-D15
22	22		1102421-00	VZ= 6.2 5% 400 MW 1N753A	2		D16,D17
23	23		1209941-02	PCB,HEADER 40PIN(2X20).100CC 90D	3		J1-J3
24	24		1216988-02	HANDLE,MODULE,HEX TWO EJECTORS	1		
25	25		1211164-06	SW,DIP 10POS/1PST 5VDC100MA F	3		E39,E121,E134
26	26		1215006-08	SKT,IC 40PIN DIP TIN SOLD	1		XE111
27	27		1300365-00	1.0 K .25 W 5.0 % CF	51		R1-R23,R27-R36,R92,R98,R103, R132-R143,R146-R148 R24-R26,R37,R39-R44
28	28		1300271-00	220.0 .25 W 5.0 % CF	10		
29	29		1303179-00	*** THIS ITEM IS NOT USED ***	-		

REVISION HISTORY			BASIC PART NO: M8203		DRN: A. KRAWIECKI		DATE: 09-DEC-83		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: J. FALKOWSKI		DATE: 09-DEC-83		TITLE PARTS LIST	
PA	M8203-MK003A/3B	H	SECTION VARIATION INDEX		CHK'D: J. FALKOWSKI		DATE: 09-DEC-83		MULTIDROP LINE UNIT	
RR	M8203-MK004	I	[A] 00		R. Blanchette		3 JAN-84			
RR	M8203-MK005	K	[B]		R. Blanchette		3 JAN-84			
PH	M8203-MK006	L	[C]		R. Blanchette		09-DEC-83			
FB	M8203-MK007	M	[D]							
FB	M8203-MK008	N	[E]		R. Blanchette		3 JAN-84		DOCUMENT NUMBER	
FB	M8203-MK009	P	[F]		R. Blanchette		09-DEC-83			
ML	M8203-MK012	R	[H]						SIZE CODE NUMBER	
BB	M8203-MK013	S	[J]		J. Pelletier		3 JAN-84			
ML	M8203-MK014	T	[K]		J. PELLETIER		09-DEC-83		K PL M8203-0-0	
			[L]							
			[M]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
			[N]		D-UA-M8203-0-0		K-DD-M8203-0		MK0480.PLS	
									EDIT #	
									37	

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AUTOMATED BY PRTLST.3L(36)

PARTS LIST

SHEET A2 OF A4

QTY PER VARIATION

LINE	ITEM	DOCUMENT	NUMBER
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
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9	9	9	9
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11	11	11	11
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99	99	99	99
100	100	100	100

PART NUMBER

DESCRIPTION

00

REFERENCE DESIGNATOR

30	30		1300447-00	4.70 K	.25 W 5.0 %	CF	9	R56-R61,R87,R104,R105
31	31	BLANK		*** THIS ITEM IS NOT USED ***			-	
32	32		1300432-00	3.0 K	.25 W 5.0 %	CF	3	R68,R69,R114
33	33		1300247-00	120.0	.25 W 5.0 %	CF	6	R70-R72,R144,R145,R149
34	34		1300228-00	100.0	.50 W 5.0 %	CF	1	R73
35	35		1300255-00	150.0	1.0 W 5.0 %	CC	2	R75,R76
36	36		1313598-00	32.40 K	.25 W 1.0 %	RN55D-F10	4	R88,R91,R110,R111
37	37		1300347-00	680.0	.50 W 5.0 %	CF	1	R151
38	38		1313842-00	48.70 K	.25 W 1.0 %	RN55D-F10	2	R93,R94
39	39		1302886-00	10.0 K	.25 W 1.0 %	RN55C-F 5	7	R95,R96,R108,R113,R117,R89,R90
40	40		1309418-00	24.30 K	.25 W 1.0 %	RN55D-F10	1	R97
41	41		130250-00	150.0	.25 W 5.0 %	CF	2	R100,R101
42	42		1302308-00	68.0	2.0 W 5.0 %	CC	1	R106
43	43		1302378-00	51.0	.50 W 5.0 %	CF	1	R107
44	44		1313077-00	12.80 K	.25 W .10 %	RN55E-B 2	2	R109,R112
45	45		1300426-00	2.70 K	.25 W 5.0 %	CF	1	R116
46	46		1300479-00	10.0 K	.25 W 5.0 %	CF	2	R125,R130
47	47		1302389-00	4.30 K	.25 W 5.0 %	CF	2	R119,R124
48	48		1311522-00	200.0	.25 W 5.0 %	CF	2	R152,R153
49	49		1300168-00	10.0	.50 W 5.0 %	CF	4	R120-R123
50	50		1300444-00	3.90 K	.25 W 5.0 %	CF	1	R126
51	51		1300496-00	15.0 K	.25 W 5.0 %	CF	2	R127,R129
52	52		1300391-00	1.50 K	.25 W 5.0 %	CF	1	R128
53	53		1302466-00	100.0 K	.25 W 5.0 %	CF	1	R131
54	54		1515018-00	2N 2905A	PNP 600MW SI 40 100		1	Q2
55	55		1501881-00	DEC2219	NPN 3WC SI 30100		1	Q1
56	56		1509338-00	DEC6531B	NPN 310MW SI 40 90 P		2	Q3,Q4
57	57		1503409-00	DEC6534D	PNP 310MW SI 40 90		1	Q5
58	58		1516150-00	VN 35AK	FET 50MW		6	Q6-Q11
59	59		1602723-00	1000	UH 10% 125MA		2	L1,L2
60	60		1612946-01	33.0	UM 10% Q MIN=4502.5MHZ		2	L3,L4
61	61		1616045-00	XFMR,PULSE,RATIO 1:1,1500PV			1	T2
62	62		1616303-00	PULSE XFMR,RATIO 1:1:1			1	T1
63	63		1811660-00	OSCILLATOR, XTAL 20.000 MHZ			1	E5
64	64		1914214-00	LS374	FF-D OCTAL EDGE TRIG		13	E86,E88,E109,E122,E123,E125, CONT E126,E128-E133
65	65		1913462-00	74S240	OCTAL BUFFER,INVERTI		2	E74,E97
66	66		1911675-00	74S138	DECODER/DEMUX 3-8 LI		3	E59,E108,E119
67	67		1912863-00	LS273	FF-D OCTAL W/CLEAR		6	E58,E66,E87,E90,E91,E94
68	68		1912697-00	LS174	FF-D HEX W/CLEAR		2	E92,E96
69	69		1910534-00	74S04	INVERTER GATE-HEX 1I		1	E17
70	70		1912824-00	LS74	FF-D DUAL,EDGE TRIGG		7	E4,E62,E63,E58,E80,E84,E118
71	71		1912849-00	LS161	COUNTER,SYNCHR,4BIT		1	E27
72	72		1913294-00	93S16	COUNTER,SYNCH UP BIN		3	E7,E8,E16
73	73		1910956-00	74S151	MUX 1 OF 8		1	E26
74	74		1912847-00	LS157	MUX 1 OF 2 (QUAD)		2	E46,E95
75	75		1910548-00	74S157	MUX 1 OF 2 (QUAD)		1	E120
76	76		1915193-00	LS244	DRIVER,LINE,OCTAL,T		9	E64,E65,E89,E98,E99,E101,E110,

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MULTIDROP LINE UNIT		K	PL	M8203-0-0	T

AUTOMATED BY PRTLST.3L(36)

P A R T S L I S T

SHEET A3 OF A4

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
77	77	1912816-00	LS32 OR GATE-QUAD 2IN,POS	4	CONT E112,E113
78	78	1913777-00	LS240 DRIVER,LINE,OCTAL,T	4	E20,E51,E81,E83
79	79	1915125-00	3691 DRIVER,QUAD,EIA RS-	2	E28,E50,E52,E93
80	80	1912742-00	75112 DRIVER,DUAL LINE	1	E37,E53
81	81	1915851-00	26LS31 DRIVER,QUAD,EIA RS	1	E13
82	82	1915694-00	3692 DRIVER,QUAD,EIA RS-4	1	E23
83	83	1915123-02	26LS32-2 RECEIVER,LINE,12K T	1	E24
84	84	1914091-00	3603 RECEIVER,LINE,DUAL	3	E38,E54,E55
85	85	1910550-00	74S174 FF-D HEX	3	E1,E14,E15
86	86	1910544-00	74S74 FF-D DUAL,EDGE TRIGG	2	E77,E78
87	87	1910741-00	7406 INVERTER GATE-HEX 1I	7	E9,E10,E18,E35,E47,E61,E11
88	88	1912805-00	LS08 AND GATE-QUAD 2IN,PO	1	E67
89	89	1912808-00	LS11 AND GATE-TRIPLE 3IN	6	E31,E33,E60,E72,E79,E82
90	90	1912821-00	LS54 A-O-I GATE,3-2-2-3IN	3	E69,E105,E117
91	91	1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	E85
92	92	1912801-00	LS02 NOR-GATE-QUAD 2IN	2	E48,E106
93	93	1910537-00	74S11 AND GATE-TRIPLE 3INP	1	E73
94	94	1910011-00	DEC 7486 X-OR GATE-QUAD 2INPU	1	E49
95	95	1911712-00	74S51 AND-OR GATE-INVERT D	1	E43
96	96	BLANK	*** THIS ITEM IS NOT USED ***	2	E32,E44
97	97	1912850-00	LS164 SHIFT REG. 8BIT SERI	-	
98	98	1910735-02	318 OP AMP	3	E21,E30,E42
99	99	1910532-00	74S00 NAND GATE-QUAD 2IN	3	E2,E6,E3
100	100	1910545-00	74S112 FF-JK DUAL,EDGE TRIG	2	E12,E34
101	101	1912803-00	LS04 INVERTER GATE,HEX	2	E19,E25
102	102	1912853-00	LS175 FF-D QUAD	1	E22
103	103	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	1	E29
104	104	2111188-01	3341-01 64X4 FIFO MEMORY	2	E70,E71
105	105	2112517-01	RECIEVER/TRANSMITTER	6	E102-E104,E114-E116
106	106	2304381-00	B1-01	1	E111
107	107	2303881-00	B1-01	1	E41
108	108	23036F1-00	F1-01	1	E100
109	109	23037F1-00	F1-01	1	E76
110	110	2304281-00	B1-01	1	E75
111	111	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	E57
112	112	9009000-00	EYELET,ROLLED 0.1210DX0.156	8	W7-W10,W12,W13,W17,W18
113	113	1013466-31	15.0 MMF 50V 5% CER	10	
114	114	1301890-00	560.0 .25 W 5.0 % CF	1	C42
115	115	1101938-00	VZ= 2.4 5% 400 MW 1N4370A	2	R85,R86
116	116	1301422-00	7.50 K .25 W 5.0 % CF	1	D22
117	117	1209941-03	PC8,HEADER LATCH	11	R45-R55
118	118	1209941-04	PC8,HEADER LATCH	2	
119	119	1316115-00	35.70 .25 W 1.0 % RN55D-F10	2	
120	120	1316736-00	374.0 .25 W 1.0 % RN55D-F10	4	R81-R84
121	121	1312928-00	51.0 .25 W 5.0 % CF	4	R77-R80
122	122	9007201-00	*** THIS ITEM IS NOT USED ***	6	R62-R67
123	123	1914082-00	74S163 COUNTER,SYNCH UP/DOW	-	
				1	E56

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							MULTIDROP LINE UNIT					
									K	PL	M8203-0-0	T

AUTOMATED BY PRTLST.3L(36)

PARTS LIST

SHEET A4 OF A4

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
00

REFERENCE DESIGNATOR

124 124 BLANK

9105740-55

*** THIS ITEM IS NOT USED ***

-

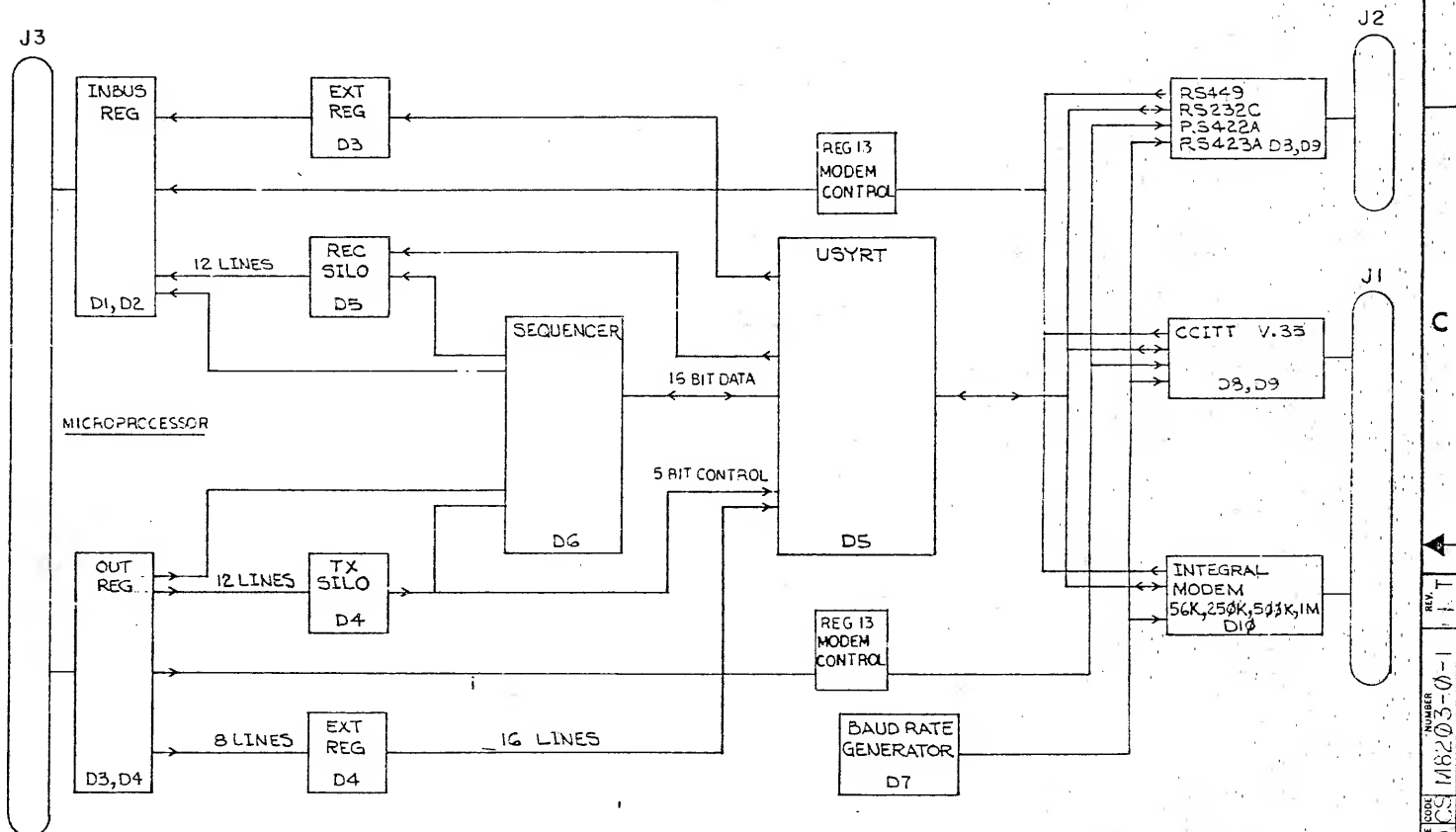
T D I G I T A L										TITLE										MULTIDROP LINE UNIT										SECTION A OF A									
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SIZE		CODE		DOCUMENT NUMBER										REV	
K		PL		M8203-0-0										T	

WRITE OUT REG		7	6	5	4	3	2	1	0	READ IN BUS REG		7	6	5	4	3	2	1	0
10		TRANSMIT DATA SILO										RECEIVER DATA SILO							
11	OC					GOAH	ABORT	EOM	SOM			OC	OACT	SW	ORDY	SW	SW	SV	UNDR
12	IC	BPCLL	LJLP									IC	IACT	LJLP	IRDY	OVR	RAB	EBLK	BCC
13	POLL	DTR	SEL FREQ	HDX		MAINT 1	MAINT 2	SEL STBY				RING	DTR	RS	HDX	MODR	CS	STBY	CARR
14		TXU ENA ***	DISSI	RDX	WAX	ENAX	AX2	AX1				RDY	TXU ENA ***	DISSI	RDX	WAX	ENAX	AX2	AX1
15		LOW BYTE EXT REG										SWITCH PACK (x) / LOW BYTE EXT							
16		HI BYTE EXT REG										SWITCH PACK (y) / HI BYTE EXT							
17		CRC TYPE	IDLE	SECA	STRIP	RDALL	ERR	DDCMP				SIG Q	SIGR	SI	OCOR	ICIR	TEST MODE	ECS	DDCMP
AX0-15		NOT USED										RECEIVER DATA USYRT							
AX0-16		NOT USED										RERR							
AX1-15		TRANSMIT DATA USYRT										TRANSMIT DATA USYRT							
AX1-16						TXGA	TXAB	TEOM	TSM							TXGA	TXAB	TEOM	TSM
AX2-15		SYNC CHARACTER										SYNC CHARACTER							
AX2-16		NOT USED										APA							
AX3-15	422	XYZ		V.35	INT	CR32 **EN	O	TEST				422	XYZ	CR32 **BCC	V.35	INT	CR32 **EN	O	TEST
AX3-16	TX CH LENGTH	TX LEN	RX LEN	REC CH LENGTH								TX CH LENGTH	TX LEN	RX LEN	REC CH LENGTH				

- NOTES:
1. AX REGISTERS ARE INDIRECTLY ADDRESSED BY USING AX1+AX2 FOR ADDRESS, WAX FOR WRITE, RDAX FOR READ, REGISTERS 15 +16 FOR DATA, ENAX GOING TO A ONE TO START THE OPERATION AND RDY TO TELL WHEN THE OPERATION IS COMPLETE.
 2. BIT MAP AS SEEN BY THE DMR11 AND DMPL MICRO PROCESSOR.
 3. DELETED.
 4. **OPTIONAL WHEN CRC32 CHIP IS INSTALLED.
 5. ***BIT 6 OF REG 14 IS DEFINED DIFFERENTLY DEPENDING ON THE STATE OF BITS:

BIT 5=0	BIT 6 WILL LOCK RTS ON.
BIT 5=1:	BIT 6 WITH ENABLE USRTX TRANSMITTER.



CHRG	REVISIONS	CHANGE NO.	REV.
34		MB 2003-MK001	E
37		MB 2003-MK001	14-JAN-80
		PALOSI	
		<i>Redacted</i>	
		MB 2003-MK001	F
		MB 2003-MK001	14-JAN-80
		PALOSI	
		<i>Redacted</i>	
		MB 2003-MK001	H
		MB 2003-MK001	14-JAN-80
		PALOSI	
		<i>Redacted</i>	
		MB 2003-MK001	J
		MB 2003-MK001	14-JAN-80
		R. HARRINGTON	
		<i>Redacted</i>	
		MB 2003-MK001	K
		MB 2003-MK001	14-JAN-80
		R. HARRINGTON	
		<i>Redacted</i>	
		MB 2003-MK001	L
		MB 2003-MK001	14-JAN-80
		R. HARRINGTON	
		<i>Redacted</i>	
		MB 2003-MK001	M
		MB 2003-MK001	14-JAN-80
		F. BACKES	
		<i>Redacted</i>	
		MB 2003-MK001	N
		MB 2003-MK001	14-JAN-80
		F. BACKES	
		<i>Redacted</i>	
		MB 2003-MK001	P
		MB 2003-MK001	14-JAN-80
		F. BACKES	
		<i>Redacted</i>	
		MB 2003-MK001	R
		MB 2003-MK001	14-JAN-80
		M. LAWRENCE	
		<i>Redacted</i>	
		MB 2003-MK001	S
		MB 2003-MK001	14-JAN-80
		B. BERGERON	
		<i>Redacted</i>	
		MB 2003-MK001	T
		<i>Redacted</i>	
		B. BERGERON	

DRAWN BY: <i>S. Stinger</i>	DATE: <i>12-3-8</i>	FIRST USED ON: <i>DMP11-AD</i>	digit
CHECK'D BY: <i>W. H. H. H.</i>	DATE: <i>12-3-8</i>	TITLE: <i>MULTI DROP LINE UNIT</i>	
ENG. BY: <i>W. H. H. H.</i>	DATE: <i>12-3-8</i>		
PROJ. ENG. BY: <i>W. H. H. H.</i>	DATE: <i>12-3-8</i>		
PROD. BY: <i>W. H. H. H.</i>	DATE: <i>12-3-8</i>		
NEXT HIGHER ASSY.			
K-DD-148203-1		SIZE	NUMBER
SCALE	NONE	D	CS
SHEET	1 OF 15	1	148203-0-1

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M3203 OPTIONS:

SWITCHES:

REGISTER 15 BITS 0-7 E134 1-8.
REGISTER 16 BITS 0-7 E121 1-8.
REGISTER 11
REGISTER 11 BIT 1 E121 10
BIT 2 E121 9
BIT 3 E134 9
BIT 5 E134 10

E39 SELECTS THE DATA RATE WITH SWITCHES 8, 9, 10.

SW	8	9	10	DATA RATE
ON	ON	ON	ON	1 MBPS
OFF	ON	ON	ON	500 KBPS
ON	OFF	ON	ON	250 KBPS
OFF	OFF	ON	ON	56 KBPS
ON	ON	OFF	ON	19.2 KBPS
OFF	ON	OFF	ON	9.6 KBPS
ON	OFF	OFF	ON	4.8 KBPS
OFF	OFF	OFF	ON	2.4 KBPS

E39 SWITCH 5 SELECTS V.35 INTERFACE.

E39 SWITCH 6 SELECTS THE OPTICS IF AVAILABLE.

E39 SWITCH 7 SELECTS RS422.

* CRC 32 CHIP CAN BE INSTALLED IN E124.

JUMPERS:

W1 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "CLEAR TO SEND" RECEIVER.
W2 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "DATA MODE" RECEIVER.
W3 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "RECEIVER DATA" RECEIVER.
W4 CAN BE USED AS A RESISTOR OR CAPACITOR FOR THE "RECEIVER CLOCK" RECEIVER.
W5 CAN BE USED FOR A RESISTOR OR CAPACITOR FOR THE "RECEIVER READY" READY.
W6 CAN BE USED FOR RESISTOR OR CAPACITOR FOR THE "TRANSMITTER CLOCK" RECEIVER.
W7 BC25C ONLY IS NORMALLY IN BUT CAN BE REMOVED TO DISABLE "SIGNAL RATE" ON SOME MODEMS THAT USE THIS SIGNAL AS A TEST CLOCK.
W8 BC25C ONLY "DATA MODE" - JUMPER "NORMALLY IN" CAN BE USED WHEN PROBLEMS OCCUR WITH SOME MODEMS.
W9 "NULL CLK" MAY CAUSE PROBLEMS WITH SOME MODEMS. REMOVE JUMPER FOR THESE APPLICATIONS.
W10 BC25C ONLY "TERMINAL READY" - IS CONNECTED TO A TEST VOLTAGE ON SOME MODEMS.
W11 INSTALL THIS JUMPER WHEN THE MODEM USED DOES NOT PROVIDE THE "CARRIER SIGNAL". THE CLOCKING OUT CIRCUIT WILL NOT WORK. THIS MAY CAUSE PROBLEMS WITH THE MICROCODE.

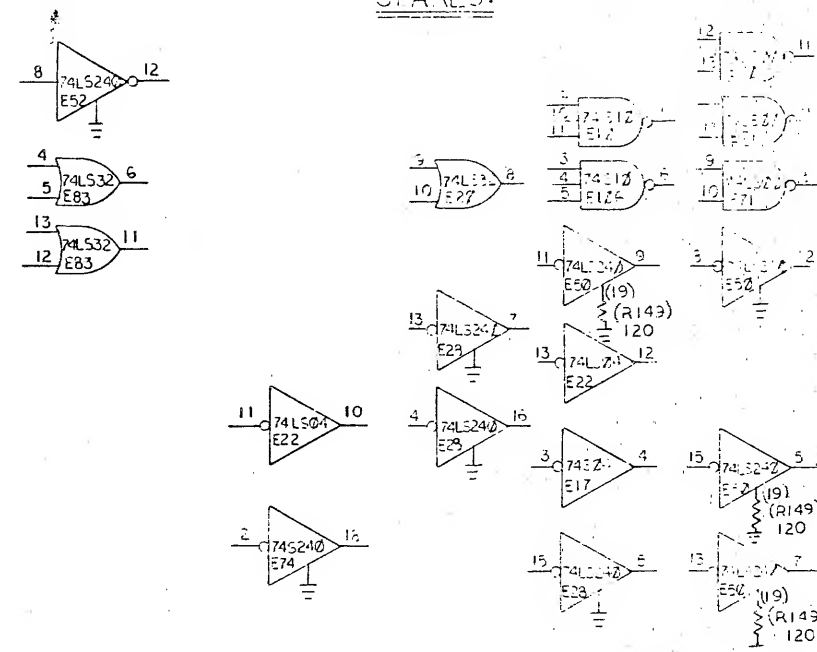
JUMPERS: (CONT'D).

W12 BC05C ONLY 'TERMINAL IN SERVICE', THIS MAY CAUSE PROBLEMS WITH SOME MODEMS.
W14 & W15 THESE JUMPERS ARE USED TO REDUCE THE BANDPASS OF THE RECEIVER FILTER ON THE INTEGRAL MODEM. (USE FOR 56 KBPS ONLY).
W13 INSTALL AFTER GR TEST.
W16 THIS JUMPER IS USED ONLY IF THE MODEM HAS A DELAY LONGER THAN FOUR BIT TIMES FOR NEGATING CLEAR TO SEND AFTER REQUEST TO SEND IS NEGATED. IF THE JUMPER IS NOT CHANGED A LOSS OF THE FIRST SYNC CHARACTER IS POSSIBLE CAUSING RANDOM LOSS OF MESSAGES, WHICH WILL CAUSE MORE RETRANSMISSIONS AND SOFT ERRORS.
W17 THIS JUMPER IS USED FOR MODEMS HAVING CONTINUOUS CARRIER, (NOT CONTROLLED BY REQUEST TO SEND FROM THE OTHER END).
W18 NOT TO BE REMOVED.

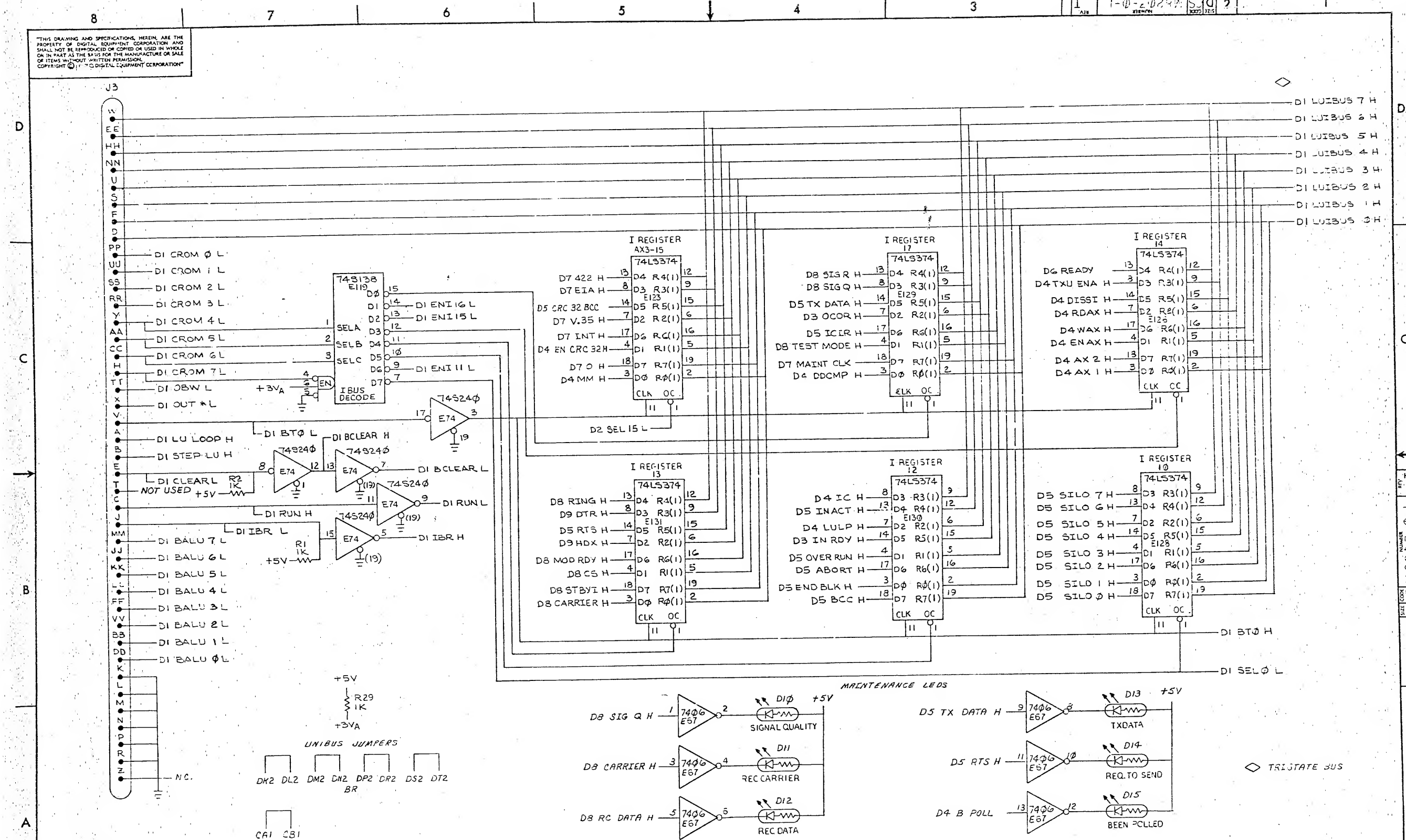
LEDS:

THERE ARE 6 LEDS ON THE M8203 TO AID THE FIELD MAINTENANCE OF THE M8203. THESE LEDS INDICATE STATUS OF THE MODEM THAT IS BEING USED WITH THE M8203 OR THE INTEGRAL MODEM IF IT IS SELECTED.
D10 SIGNAL QUALITY (NOT USED WITH THE INTEGRAL MODEM).
D11 CARRIER (INDICATE THE RECEIVER IS IN SYNC).
D12 RECEIVER DATA.
D13 TRANSMIT DATA.
D14 REQUEST TO SEND.
D15 BEEN POLLED. (THIS IS FROM THE MICROPROCESSOR AND IS DEFINED BY THE OPTION MANUAL).

SPARES:

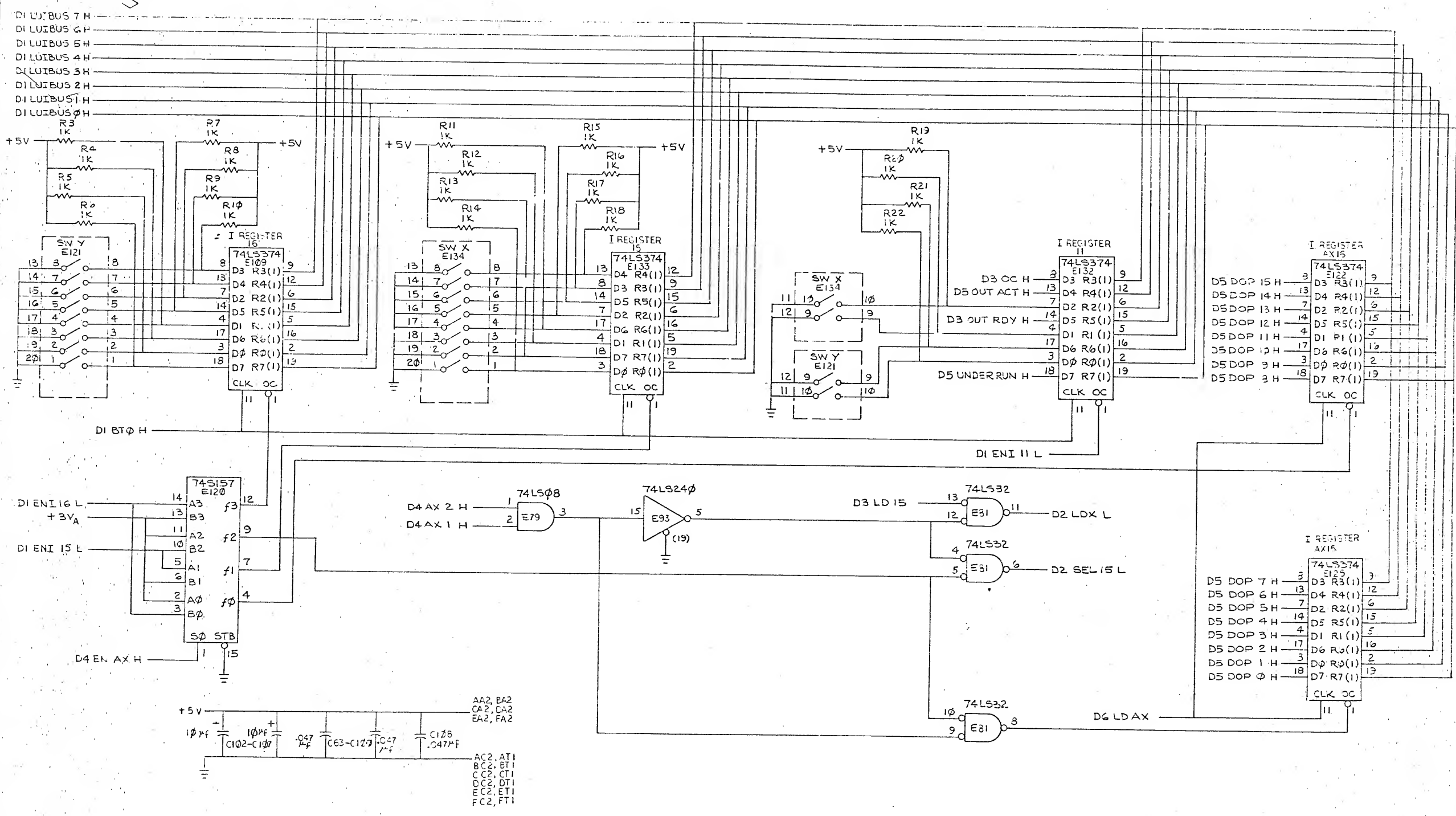


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REVISIONS													TITLE		SIZE CODE		NUMBER		REV.
CHK	CHANGE NO.	REV.													DI		D CS M8203-01		T

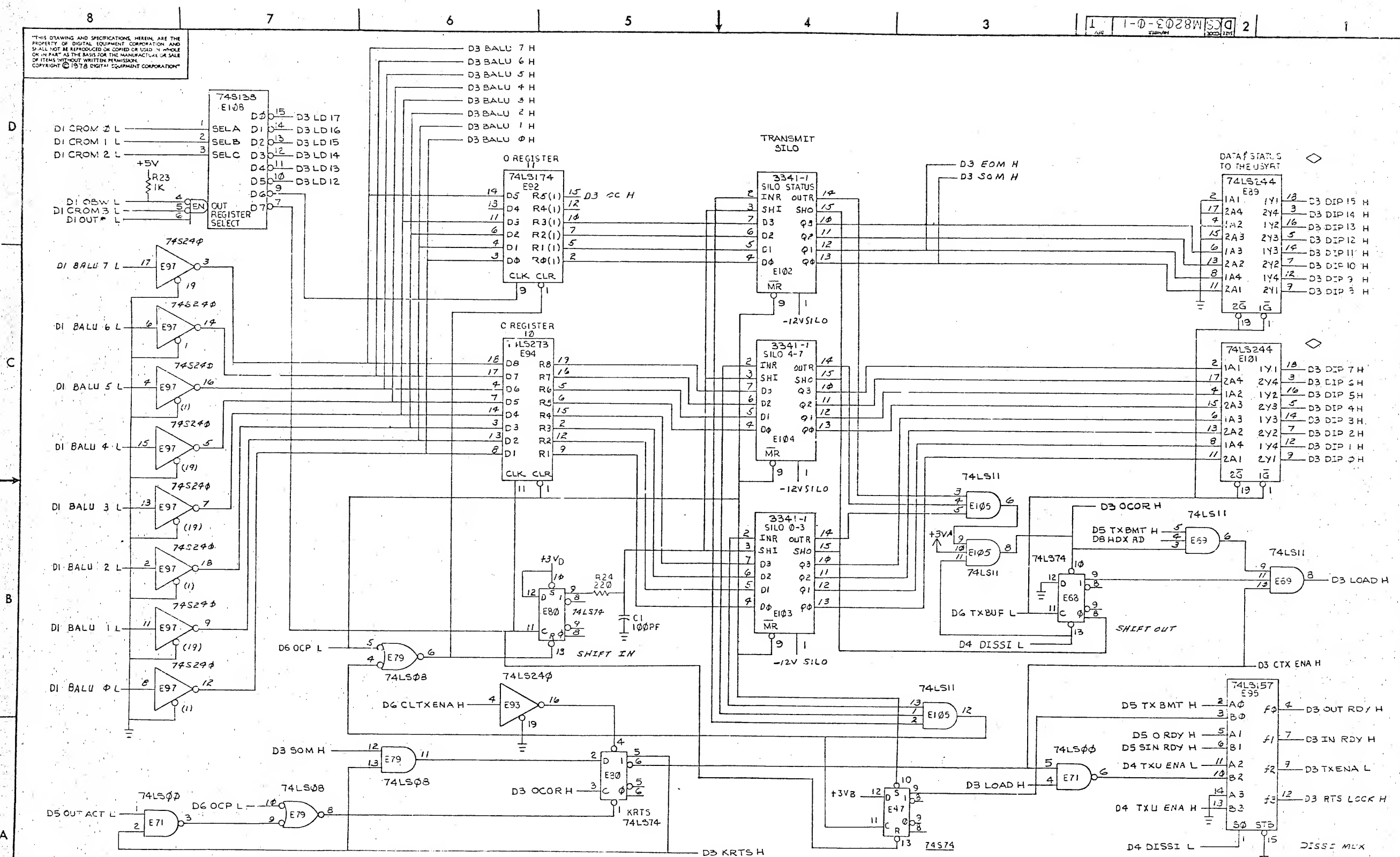
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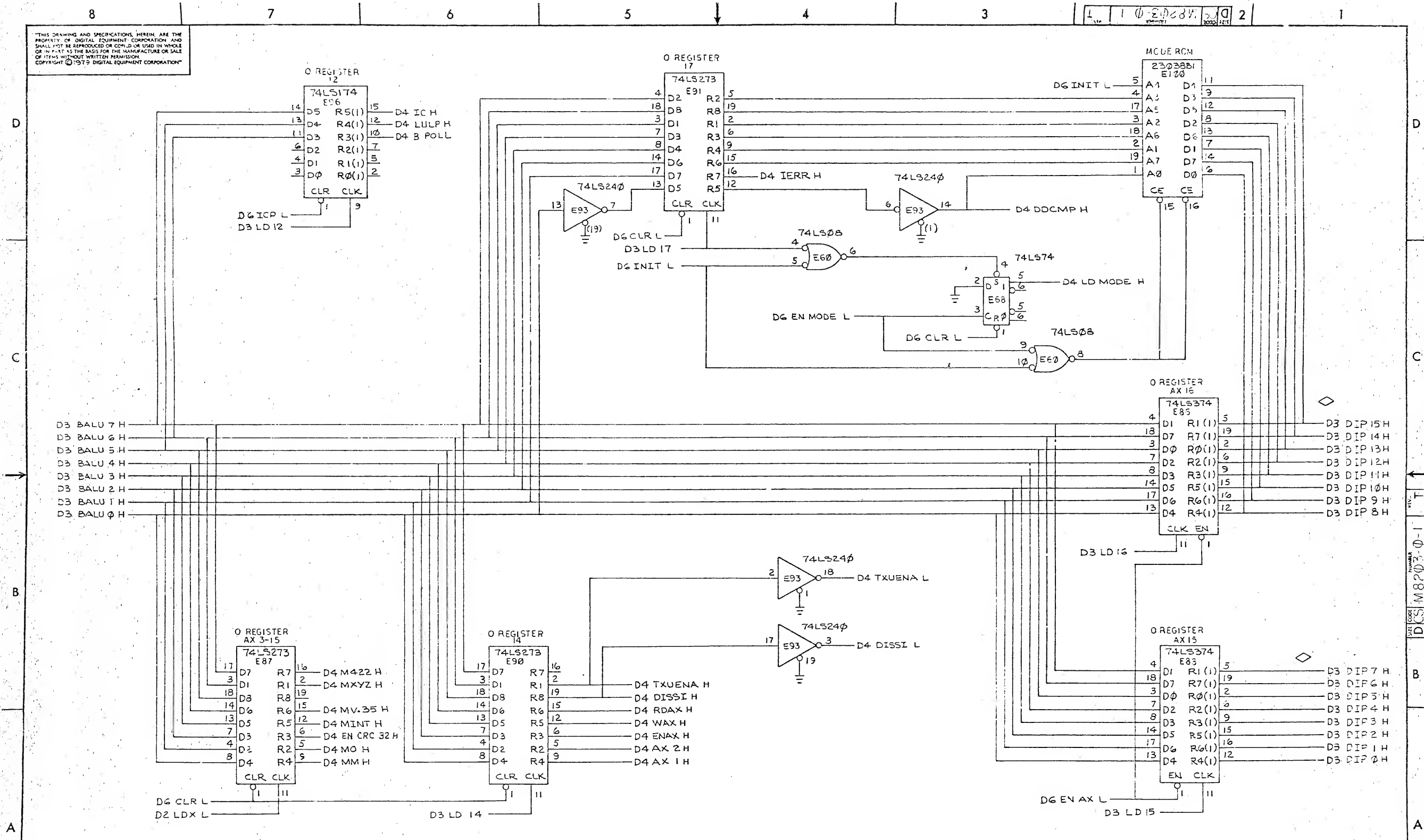
REVISIONS		
CHK	CHANGE NO.	REV

TITLE		(INBUS REGISTERS)		SIZE CODE	NUMBER	REV.
MULTI DROF LINE UNIT D2		DCS M8203-0-1		DIST.		T
SCALE	SHEET	4 OF 15				
		MK				

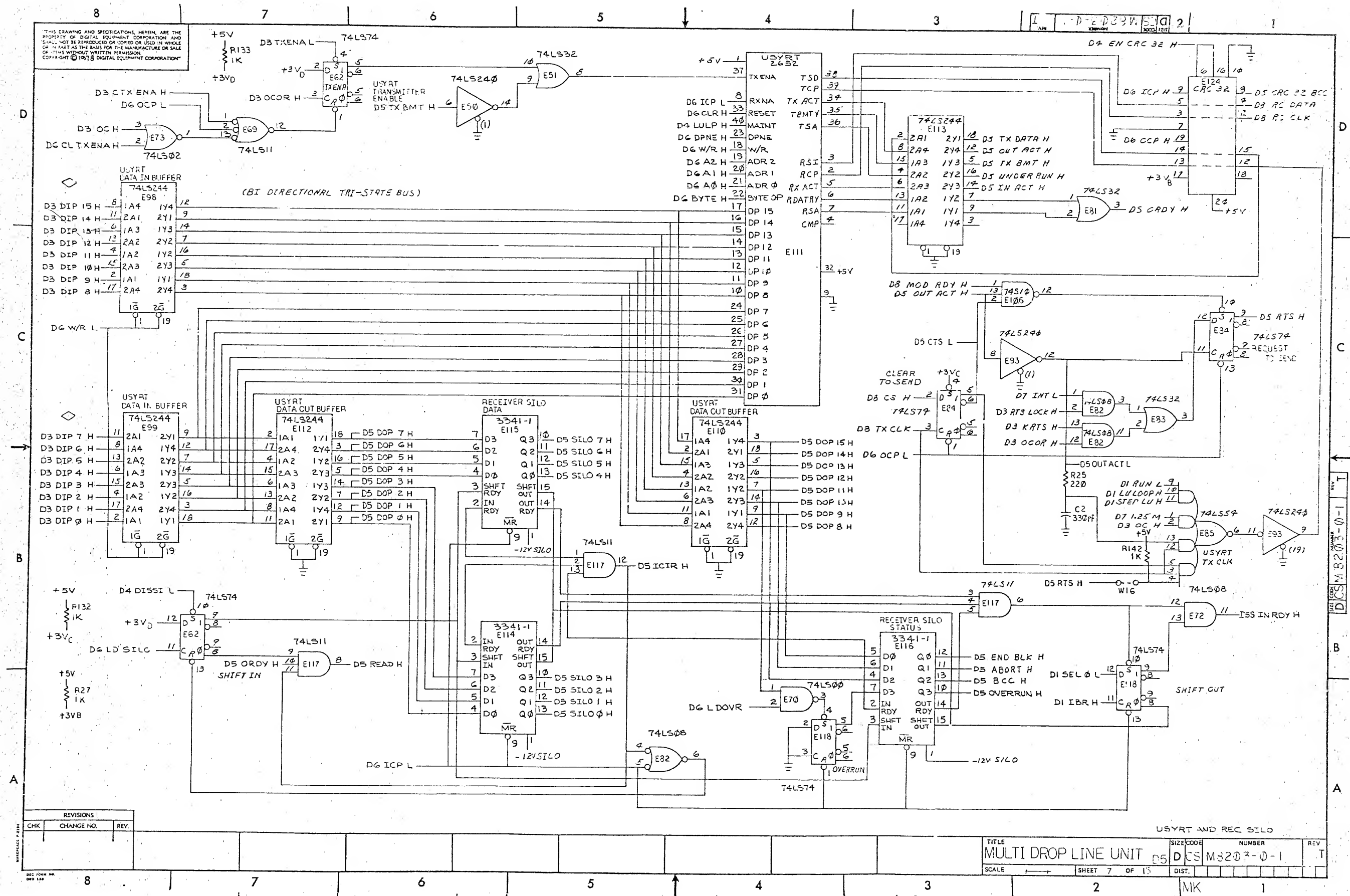
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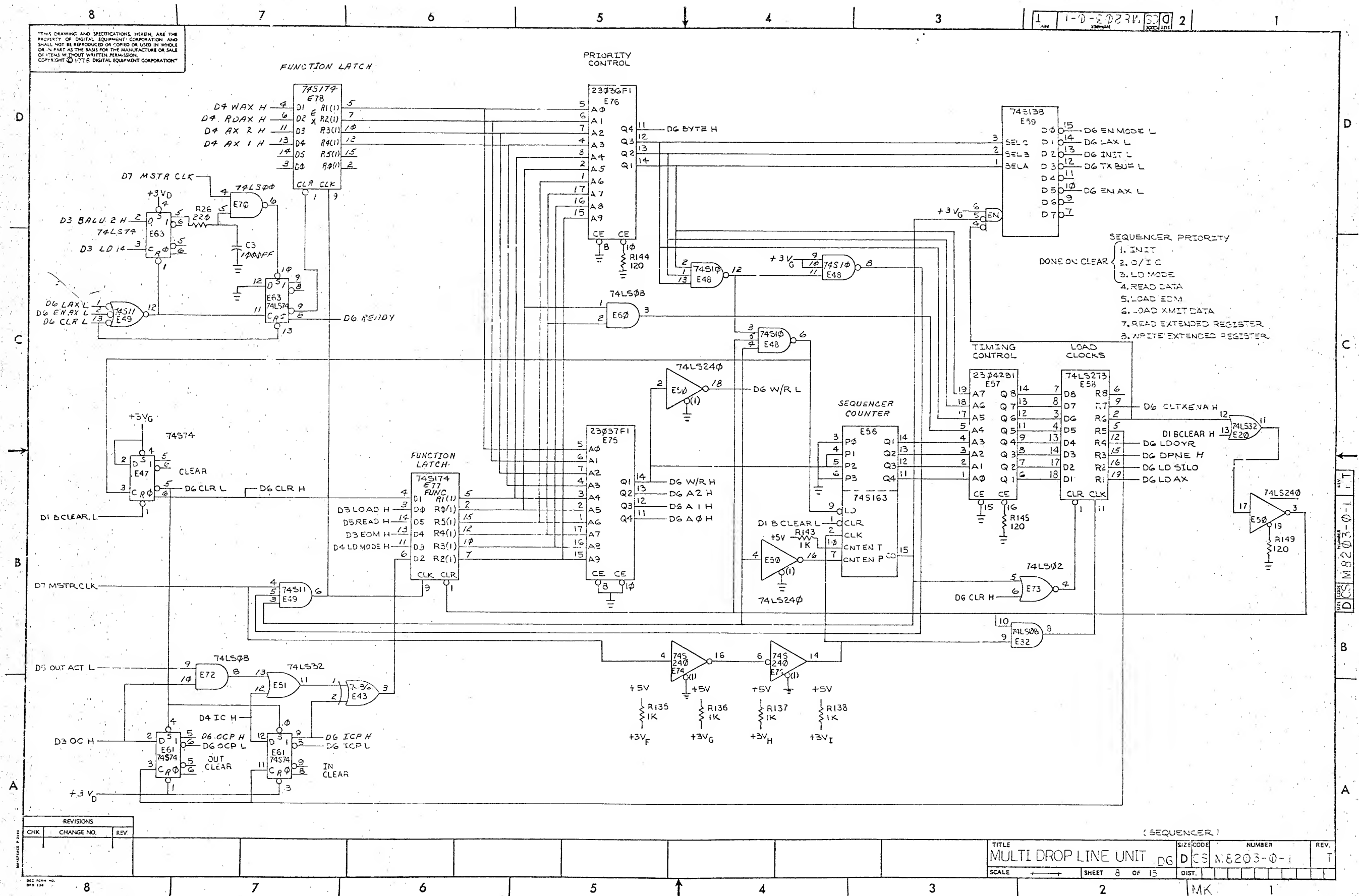


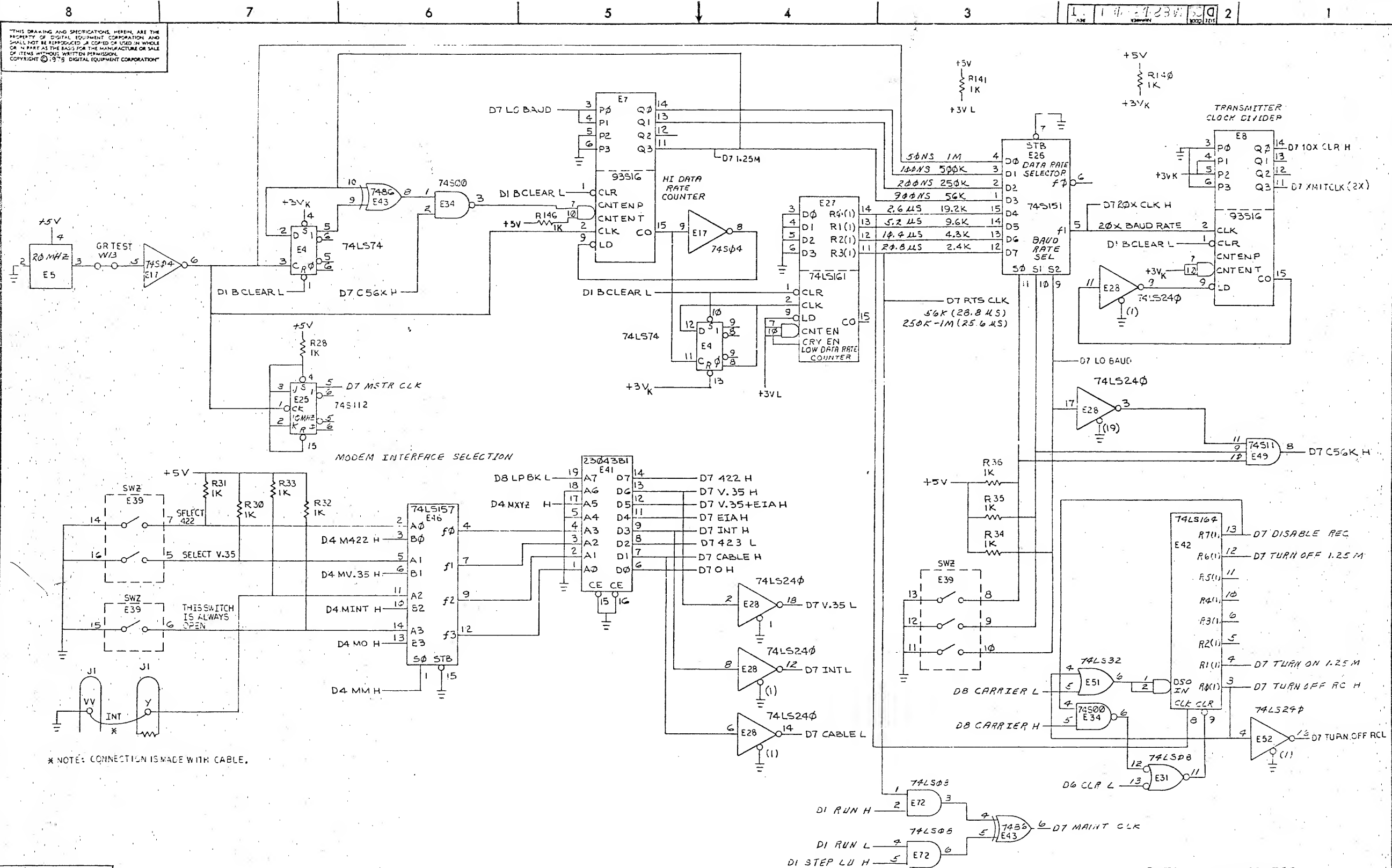
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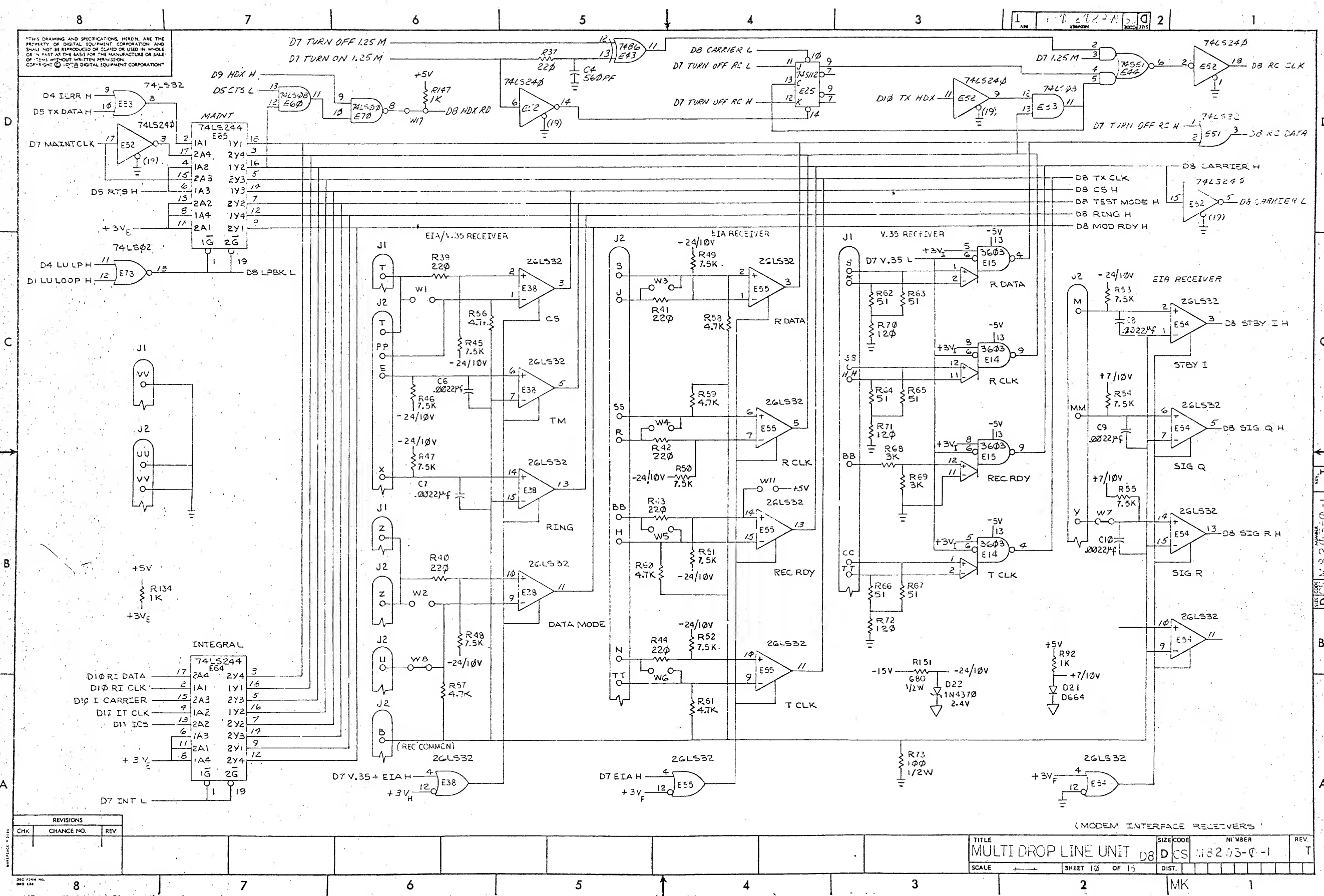


REVISIONS			(EXTENDED REG AND MODE)									
CHK	CHANGE NO.	REV.	TITLE		SIZE CODE	NUMBER	REV.					
			MULTI DROP LINE UNIT		D4	DCS M8203-0-1	T					
			SCALE	1/1	SHEET	6 OF 12	DIST.					



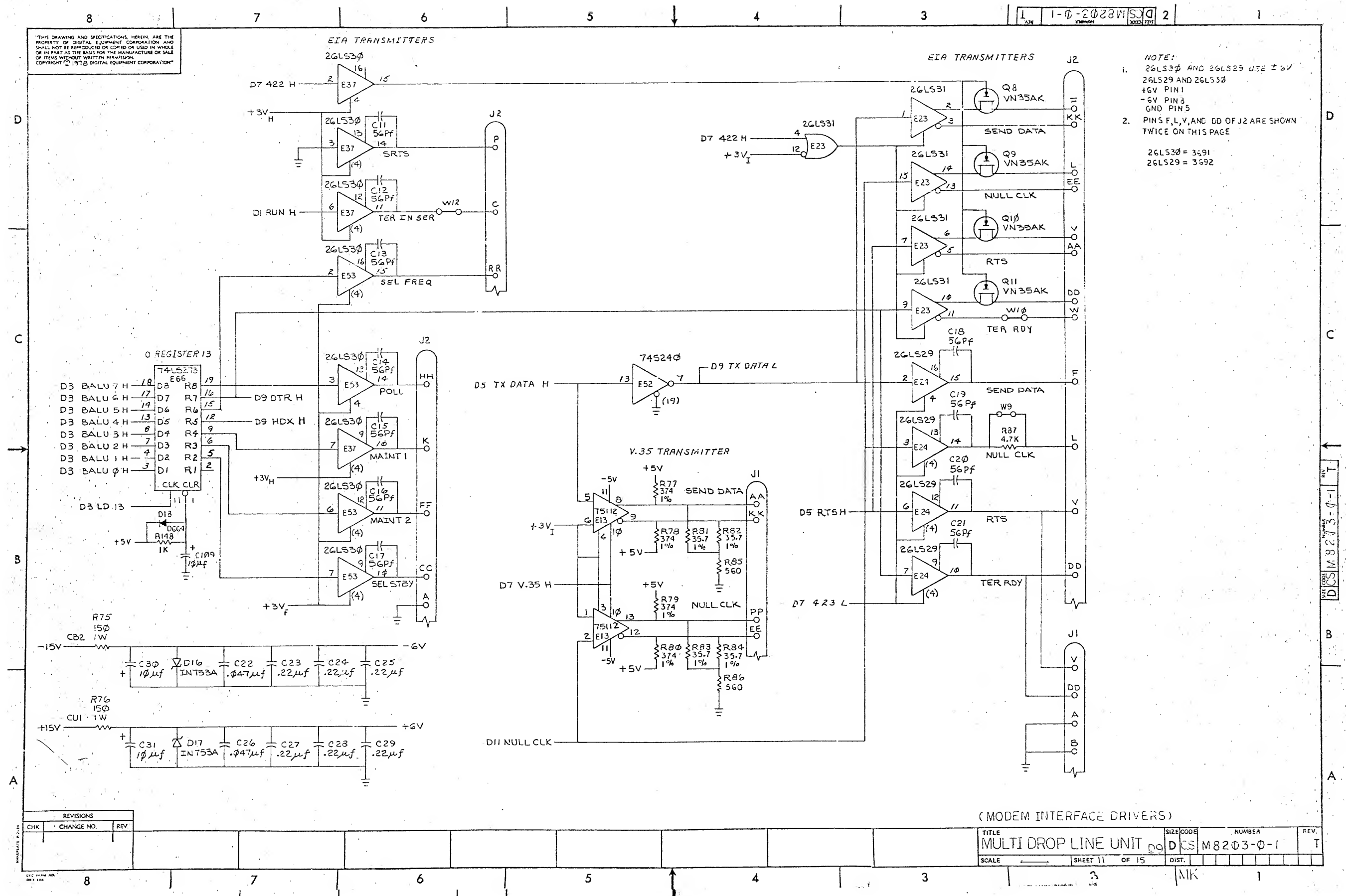


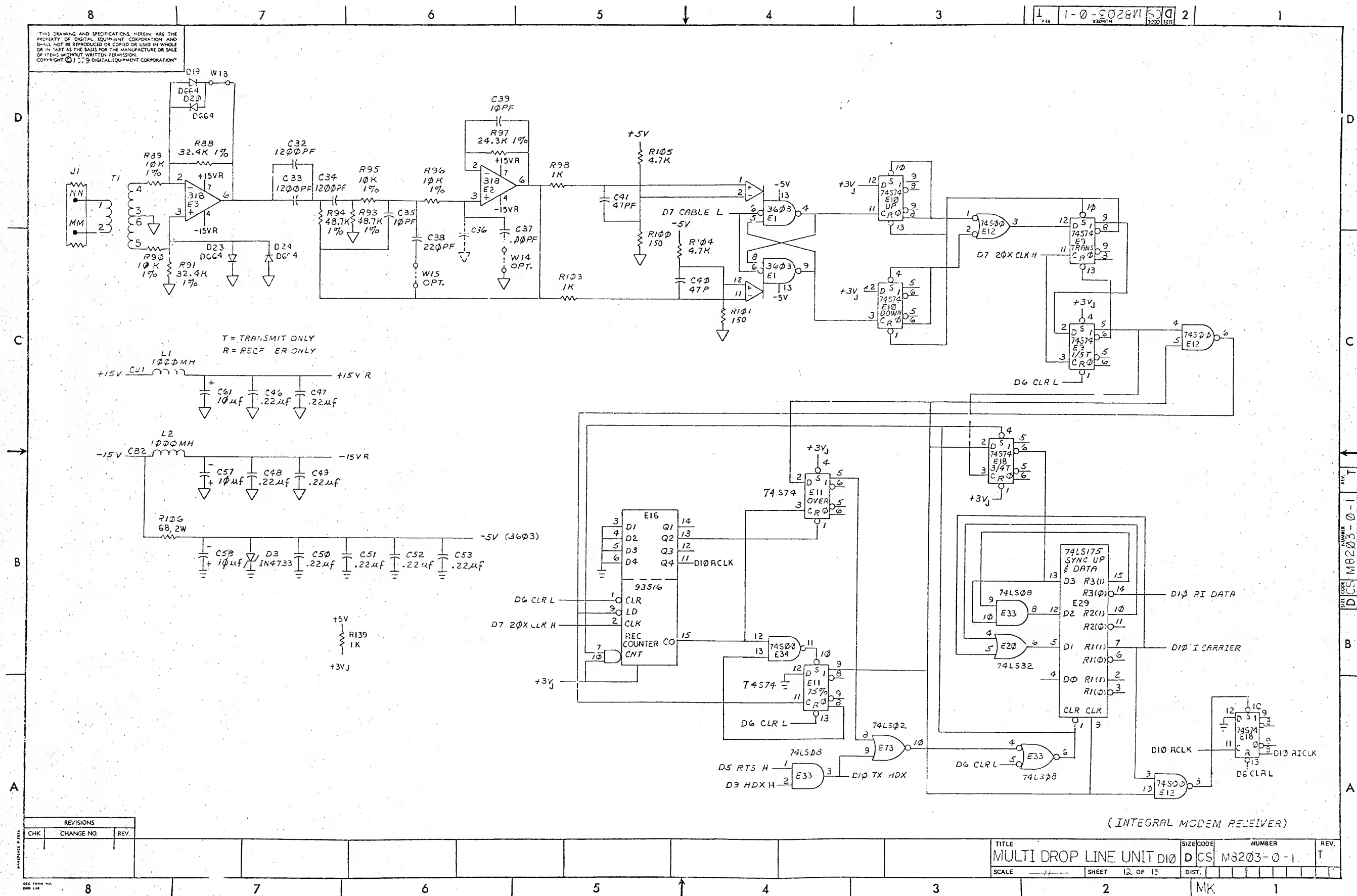




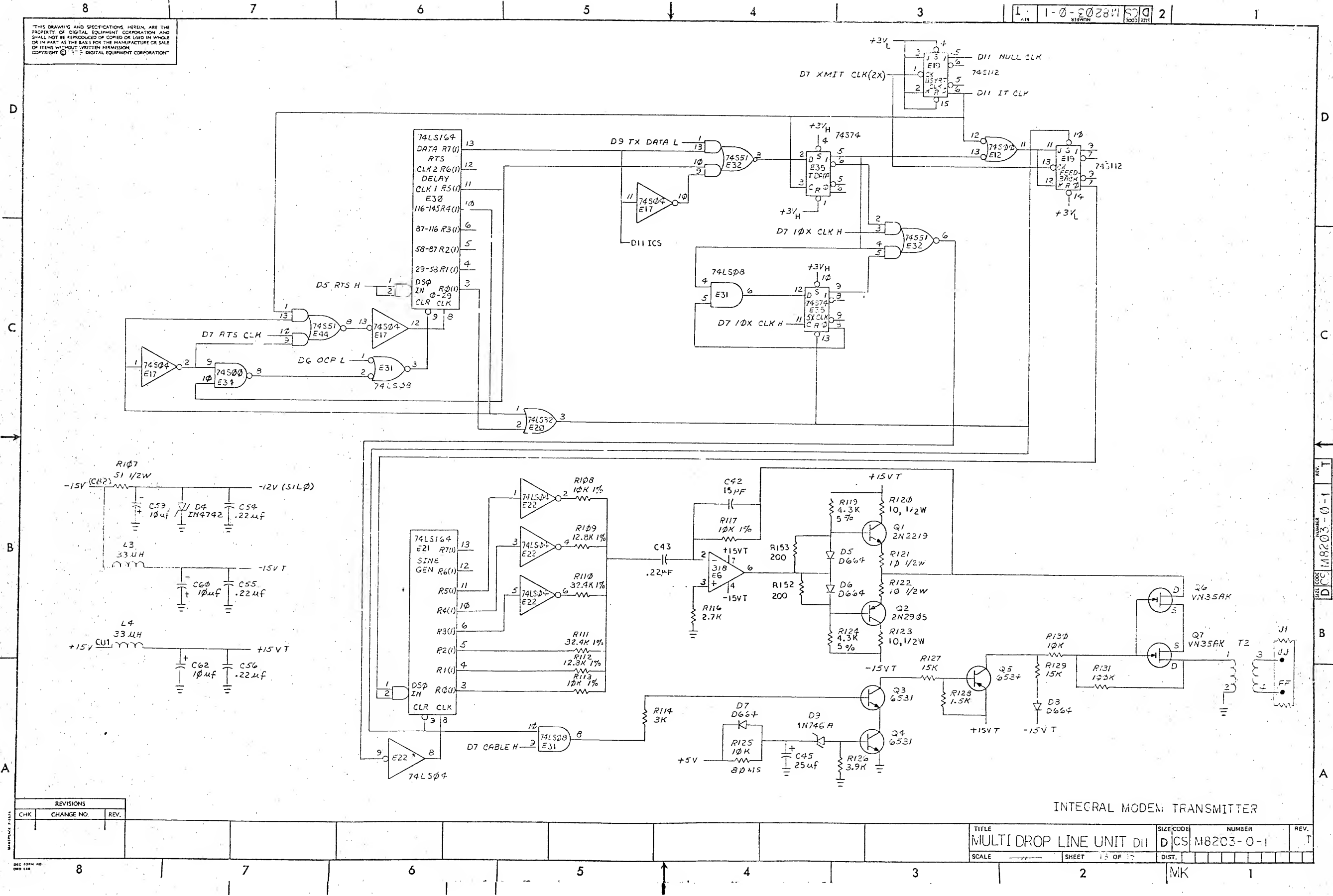
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
MULTI DROP LINE UNIT DB DCS		1/2	1	1	T
SCALE		SHEET 105 OF 15		DIST.	






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A

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OUT RDY H
RTS LOCK H
SOM H
TX ENA L
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05D6MAVSP:ACE R-3374

SCALE		SHEET	14 OF 15
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